CFA-30 CFA Waste Oil Tank at CFA-665, active

CFA-30

INITIAL ASSESSMENT FORM

I SITE NAME AND LOCATION

01 SITE NAME	02 ADDRESS
CFA Waste Oil Tank at CFA-665, active	Idaho National Engineering Laboratory (INEL)

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY
Scoville	Idaho		Butte

09 COORDINATES: NORTH	EAST	07 COUNTY CODE	08 CONG. DIST.
6 7 8 9 2 0	2 9 4 5 1 0		

10 DIRECTIONS TO SITE (Starting from nearest public road)
From US 20: NW on Portland Ave; S on Main St; SE on Lansing Ave; NE on Oregon St.

II. OWNER/OPERATOR

01 OWNER (If known)	02 STREET ADDRESS		
Department of Energy (DOE)	785 DOE Place		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Idaho Falls	Idaho	83402	(208) 526-1122
07 OPERATOR (If known)	08 STREET ADDRESS		
EG&G Idaho, Inc.	P.O. Box 1625		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Idaho Falls	Idaho	83415	(208) 526-1014

III. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION __ YES xx NO DATE __/__/__

02 SITE STATUS (Check one)	03 YEARS RECEIVED HAZ WASTE		
xx A. Active SWMU __ B. Inactive __ C. Unknown	__/__ Start	Stop	xx Unknown

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
See Waste Information Section

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
See Hazardous Conditions and Incidents Section

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Org.)	03 TELEPHONE NUMBER
Clifford Clark	DOE-ID	(208) 526-1122

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORG.	07 TELEPHONE NUMBER
Terry Alexander	EG&G	HWP	(208) 526-8040

08 DATE
10/08/86
Mon Day Year

WASTE INFORMATION

WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

__A. Solid
__B. Powder Fines
__C. Sludge
__D. Other _____
__E. Slurry
xxF. Liquid
__G. Gas

02 WASTE QUANTITY AT SITE

TONS _____
CUBIC YARDS 4.95
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

__A. Toxic
__B. Corrosive
__C. Radioactive
__D. Persistent
__E. Soluble
__F. Infectious
xxG. Flammable
__H. Ignitable
__I. Highly Volatile
__J. Explosive
__K. Reactive
__L. Incompatible
__M. Not Applicable

II. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT	COMMENTS
SLU	Sludge			
OLW	Oily Waste	1000	GA	used oil
SOL	Solvents			
PSD	Pesticides			
OCC	Other organic chemicals			
IOC	Inorganic chemicals			
ACD	Acids			
BAS	Bases			
MES	Heavy metals			

HAZARDOUS CONSTITUENTS

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STOR/DISP METHOD	05 CONC.	06 MEASURE

SOURCES OF INFORMATION

(Specific references, e.g., state titles, sample analysis reports, etc.)
Site inspections, personnel interviews, process records, laboratory records.

HAZARDOUS CONDITIONS AND INCIDENTS

HAZARDOUS CONDITIONS AND INCIDENTS

01 __ A. GROUNDWATER CONT. 02 __ OBSERVED (Date _____) __ POTENTIAL
03 NARRATIVE DESCRIPTION: __ ALLEGED

Not Applicable

01 __ B. SURFACE WATER CONT. 02 __ OBSERVED (Date _____) __ POTENTIAL
03 NARRATIVE DESCRIPTION: __ ALLEGED

Not Applicable

01 __ C. CONTAMINATION OF AIR 02 __ OBSERVED (Date _____) __ POTENTIAL
03 POULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION __ ALLEGED

Not Applicable

01 __ D. FIRE/EXPLOSIVE CONDITIONS 02 __ OBSERVED (Date _____) __ POTENTIA
03 POPULATION POTENTIALLY AFFECTED _____04 NARRATIVE DESCRIPTION __ ALLEGED

Not Applicable

01 __ E. DIRECT CONTACT 02 __ OBSERVED (Date _____) __ POTENTIAL
03 POPULATION POTENTIALLY AFFECTED _____04 NARRATIVE DESCRIPTION __ ALLEGED

Not Applicable

01 XX F. CONTAMINATION OF SOIL 02 __ OBSERVED (Date _____) XX POTENTIAL
03 NARRATIVE DESCRIPTION: __ ALLEGED

There is a potential for soil contamination around the tank if leakage has occured. There is no evidence of leakage at this time.

01 __ G. DRINKING WATER CONTAMINATION 02 __ OBSERVED (Date _____) __ POTENTIAL
03 NARRATIVE DESCRIPTION: __ ALLEGED

Not Applicable

HAZARDOUS CONDITIONS AND INCIDENTS

HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

03 __ J. DAMAGE TO FLORA 02 __ OBSERVED (Date _____) __ POTENTIAL
04 NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

01 __ K. DAMAGE TO FAUNA 02 __ OBSERVED (Date _____) __ POTENTIAL
04 NARRATIVE DESCRIPTION: (include name(s) of species) __ ALLEGED
Not Applicable

01 __ L. CONTAMINATION OF FOOD CHAIN 02 __ OBSERVED (Date _____) __ POTENTIAL
04 NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

01 __ M. UNSTABLE CONTAINMENT OF WASTES 02 __ OBSERVED (Date _____) __POTENTIAL
(SPILL RUNOFF, STANDING LIQUIDS/LEAKING DRUMS)
03 NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

__ N. DAMAGE TO OFFSITE PROPERTY 02 __ OBSERVED (Date _____) __ POTENTIAL
NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

01 __ O. CONTAMINATION OF SEWERS,STORM 02 __ OBSERVED(Date _____) __ POTENTIAL
DRAINS, WWTPs
04 NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

01 __ P. ILLEGAL/UNAUTHORIZED DUMPING 02 __ OBSERVED (Date _____) __ POTENTIAL
04 NARRATIVE DESCRIPTION: __ ALLEGED
Not Applicable

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS
Not Applicable

III. COMMENTS NONE

IV. SOURCES OF INFORMATION (List specific references, e.g., state titles, sample analysis, reports)
› inspections, personnel interview, disposal quantity records, EG&G-WM-6875
llation Assessment Report, USGS Report IDO-22053 TID-4500 The Influence
of Liquid Waste Disposal on the Geochemistry of Water at the NRTS.

PRIORITY RANKING SYSTEM

I. GENERAL FACILITY INFORMATION

FACILITY NAME: CFA Waste Oil Tank at CFA-665, active

LOCATION: INEL

POINT OF CONTACT: NAME: Clifford Clark

ADDRESS: 785 DOE Place, Idaho Falls ID

PHONE: 208-526-1122

REVIEWER: M.L. Saint-Louis DATE: 10-16-86

II. GENERAL FACILITY DESCRIPTION

GENERAL DESCRIPTION OF THE FACILITY: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

This underground storage tank contain waste oil from Central Facilities area. Contamination of primary concern is Ground-water.

III. SCORES

SM = 3.2 (Sgw= 5.6 Ssw= 0 Sa= 0)

SFE = 0

SDC = 0

GROUND WATER ROUTE WORKSHEET

RATING FACTOR	ASSIGNED VALUE (Circle one)	MULTI-PLIER	SCORE	MAX. SCORE	REF. Section
					3.2
1.ROUTE CHARACTERISTICS					
Depth to Aquifer of Concern	(0) 1 2 3	2	0	6	
Net Precipitation	(0) 1 2 3	1	0	3	
Permeability of the Unsaturated Zone	0 1 (2) 3	1	2	3	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			5	15	
2.CONTAINMENT	0 (1) 2 3	1	1	3	3.3
3.WASTE CHARACTERISTICS					3.4
Toxicity/Persistence	0 3 6 9 (12) 15 18	1	12	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			13	26	
4. Multiply lines 1 x 2 x 3			65	1170	

5. Divide line 4 by 1170 and multiply by 100 Sgw= 5.6

SURFACE WATER ROUTE WORKSHEET

RATING FACTOR	ASSIGNED VALUE (Circle one)	MULTI-PLIER	SCORE	MAX. SCORE	REF. Section
					4.2
1.ROUTE CHARACTERISTICS					
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 (1) 2 3	1	1	3	
Distance to Nearest Surface Water	(0) 1 2 3	2	0	6	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			4	15	
2.CONTAINMENT	(0) 1 2 3	1	0	3	4.3
3.WASTE CHARACTERISTICS					4.4
Toxicity/Persistence	0 3 6 9 (12) 15 18	1	12	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			13	26	
4. Multiply lines 1 x 2 x 3			0	1170	
5. Divide line 4 by 1170 and multiply by 100		Ssw=	0		

AIR ROUTE WORKSHEET

RATING FACTOR	ASSIGNED VALUE (Circle one)	MULTI-PLIER	SCORE	MAX. SCORE	REF. Section
1.HISTORIC RELEASE	(0) 45	1	0	45	5.1
Date and Location: See attached supplement pages					
If line 1 is 0, the Sa = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2.WASTE CHARACTERISTICS					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
TARGETS					5.3
Population within 4-mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Target Scores				39	
4. Multiply lines 1 x 2 x 3				35100	
5. Divide line 4 by 35100 and multiply by 100 Sa = 0					

	S	S^2
GROUNDWATER ROUTE SCORE (Sgw)	5.6	31.36
SURFACE WATER ROUTE SCORE (Ssw)	0	0
AIR ROUTE SCORE (Sa)	0	0
$Sgw^2 + Ssw^2 + Sa^2$		31.36
$SQR(Sgw^2 + Ssw^2 + Sa^2)$		5.6
$SQR(Sgw^2 + Ssw^2 + Sa^2)/1.73 = SM$		3.2

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: CFA Waste Oil Tank at CFA-665, active

LOCATION: ENEL

DATE SCORED: 10-16-86

PERSON SCORING: M.L. Saint-Louis

PRIMARY SOURCE(S) OF INFORMATION:
Site inspection and personnel interview

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

1. OBSERVED RELEASE - Undertake Corrective Action

Contaminants detected (3 maximum):

None

Rationale for attributing the contaminants to the facility:

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:
The Snake River Plain aquifer which flows beneath the INEL is approximately 9600 m^2. Subsurface consist of alternating layers of basalt and silt.

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

~ 500 feet

Depth from the ground surface to the lowest point of waste disposal/ storage:

~ 480 feet

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

9.07 inches

Mean annual lake or seasonal evaporation (list months for seasonal):

36 inches

Net precipitation (subtract the above figures):

- 26.93 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

An interbedded sequence of basaltic lava flows and sedimentary deposits.

Permeability associated with soil type:

10^{-7} to 10^{-3} cm/sec

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquid

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method of highest score:

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Waste oil

Compound with highest score:

waste oil.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1000 gal

Basis of estimating and/or computing waste quantity:

Based on tanks holding capacity

	Yes	No
Identifying Release		
1. Potential for Groundwater Releases from the Unit		
o Unit type and design		
- Does the unit type (e.g., land-based) indicate the potential for release?	___	X
- Does the unit have engineered structures (e.g., liners, leachate collection systems, proper construction materials) designed to prevent releases to groundwater?	X	___
o Unit operation		
- Does the unit's age (e.g., old unit) or operating status (e.g., inactive, active) indicate the potential for release?	X	___
- Does the unit have poor operating procedures that increase the potential for release?	___	X
- Does the unit have compliance problems that indicate the potential for a release to groundwater?	___	X
o Physical condition		
- Does the unit's physical condition indicate the potential for release (e.g., lack of structural integrity, deteriorating liners, etc.)?	___	X
o Locational characteristics		
- Is the unit located on permeable soil so the release could migrate through the unsaturated soil zone?	X	___
- Is the unit located in an arid area where the soil is less saturated and therefore a release has less potential for downward migration?	X	___
- Does the depth from the unit to the uppermost aquifer indicate the potential for release?	___	X

	Yes	No
- Does the rate of groundwater flow greatly inhibit the migration of a release from the facility?	X	
- Is the facility located in an area that recharges surface water?	X	
o Waste characteristics		
- Does the waste in the unit exhibit high or moderate characteristics of mobility (e.g., tendency not to sorb soil particles or organic matter in the unsaturated zone)?		X
- Does the waste exhibit high or moderate levels of toxicity?	X	
2. Evidence of Groundwater Releases		
o Existing groundwater monitoring systems		
- Is there an existing system?	X	
- Is the system adequate?		X
- Are there recent analytical data that indicate a release?		X
o Other evidence of groundwater releases		
- Is there evidence of contamination around the unit (e.g., discolored soils, lack of or stressed vegetation) that indicates the potential for a release to groundwater?		X
- Does local well water or spring water sampling data indicate a release from the unit?		X
Determining the Relative Effect of the Release on Human Health and the Environment		
1. Exposure Potential		
o Conditions that indicate potential exposure		
- Are there drinking water well(s) located near the unit?	X	
- Does the direction of groundwater flow indicate the potential for hazardous constituents to migrate to drinking water wells?	X	

SURFACE WATER ROUTE

1. OBSERVED RELEASE - Undertake Corrective Action

Contaminants detected in surface water at the facility or downhill from it (3 maximum):

None

Rationale for attributing the contaminants to the facility:

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

less than 1%

Name/description of nearest downslope surface water:

The Big Lost River flows north-west through the INEL. The average discharge of record is 208,000 acre-feet / year.

Average slope of terrain between facility and above cited surface water body in percent:

less than 1%

Is the facility located either totally or partially in surface water?

No

Is the facility completely surrounded by areas of high elevation?

Yes

1-year 24-Hour Rainfall in Inches

less than 2 inches

Distance to Nearest Downslope Surface Water

~ 3 miles

Physical State of Waste

Liquid

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Sealed container

Method with highest score:

Sealed Container (old unit)

Checklist for Surface Water/Surface Drainage Releases

	Yes	No
Identifying Releases		
1. Potential for Surface Water/Surface Drainage Release from the Facility		
o Proximity to Surface Water and/or to Off-site Receptors		
- Could surface run-off from the unit reach the nearest downgradient surface water body?	___	X
- Could surface run-off from the unit reach off-site receptors (e.g., if facility is located adjacent to populated areas and no barrier exists to prevent overland surface run-off migration)?	___	X
o Release Migration Potential		
- Does the slope of the facility and intervening terrain indicate potential for release?	___	X
- Is the intervening terrain characterized by soils and vegetation that allow overland migration (e.g., clayey soils, and sparse vegetation)?	___	X
- Does data on one-year 24-hour rainfall indicate the potential for area storms to cause surface water or surface drainage contamination as a result of run-off?	___	X
o Unit Design and Physical Condition		
- Are engineered features (e.g., run-off control systems) designed to prevent release from the unit?	X	___
- Does the operational history of the unit indicate that a release has taken place (e.g., old, closed or inactive unit, not inspected regularly, improperly maintained)?	___	X
- Does the physical condition of the unit indicate that releases may have occurred (e.g., cracks or stress factures in tanks or erosion of earthen dikes of surface impoundments)?	___	X

Checklist for Surface Water/Surface Drainage Releases

	Yes	No
o Waste Characteristics		
- Is the volume of discharge high relative to the size and flow rate of the surface water body?	___	X
- Do constituents in the discharge tend to sorb to sediments (e.g., metals)?	X	___
- Do constituents in the discharge tend to be transported downstream?	X	___
- Do waste constituents exhibit moderate or high characteristics of persistence (e.g., PCBs, dioxins, etc.)?	___	X
- Do waste constituents exhibit moderate or high characteristics of toxicity (e.g., metals, chlorinated pesticides, etc.)?	X	___
2. Evidence of Surface Water/Surface Drainage Releases		
o Are there unpermitted discharges from the facility to surface water that require an NPDES or a Section 404 permit?	___	X
o Is there visible evidence of uncontrolled run-off from units at the facility?	___	X
<u>Determining the Relative Effect of the Release on Human Health and the Environment</u>		
1. o Are there drinking water intakes nearby?	X	___
o Could human and/or environmental receptors come into contact with surface drainage from the facility?	___	X
o Are there irrigation water intakes nearby?	X	___
o Could a sensitive environment (e.g., critical habitat, wetlands) be affected by the discharge (if it is nearby)?	___	X

1. OBSERVED RELEASE

Contaminants detected:

None

Date and Location of detection of contaminants:

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

None

Most incompatible pair of compounds:

None

Toxicity

Most toxic compound:

Waste oil

Hazardous Waste Quantity

Total quantity of hazardous waste:

1000 gal

Basis of estimating and/or computing waste quantity:

Based on tanks holding capacity

	Yes	No
Identifying Releases		
1. Potential for Air Releases from the Facility		
o Unit Characteristics		
- Is the unit operating and does is expose waste to the atmosphere?	___	X
- Does the size of the unit (e.g., depth and surface area) create a potential for air release?	___	X
o Does the unit contain waste that exhibits a moderate or high potential for vapor phase release?		
- Does the unit contain hazardous constituents of concern as vapor releases?	___	X
- Do waste constituents have a high potential for volatilization (e.g., physical form, concentrations, and constituent-specific physical and chemical parameters that contribute to volatilization)?	___	X
o Does the unit contain waste and exhibit site conditions that suggest a moderate or high potential for particulate release?		
- Does the unit contain hazardous constituents of concern as particulate releases?	___	X
- Do constituents of concern as particulate releases (e.g., smaller, inhalable particulates) have potential for release via wind erosion, reentrainment by moving vehicles, or operational activities?	___	X
- Are particulate releases comprised of small particles that tend to travel off-site?	___	X
o Do certain environmental and geographic factors affect the concentrations of airborne contaminants?		
- Do atmospheric/geographic conditions limit constituent dispersion (e.g., areas with atmospheric conditions that result in inversions)?	___	X
- Is the facility located in a hot, (dry) area?	X	___

	Yes	No
2. Evidence of Air Releases		
o Does on-site monitoring data show that releases have occurred or are occurring (e.g., OSHA data)?	___	X
o Have particulate emissions been observed at the site?	___	X
o Have there been citizen complaints concerning odors or observed particulate emissions from the site?	___	X

Determining the Relative Effect of the Release on Human Health and the Environment

1. Exposure Potential		
o Is a populated area located near the site?	X	___

INEL Workers

Checklist for Subsurface Gas Releases

	Yes	No
Identifying a Release		
1. Potential for Subsurface Gas Releases		
o Does the unit contain waste that generates methane or generates volatile constituents that may be carried by methane (e.g., decomposable refuse/volatile organic wastes)?	___	X
o Is the unit an active or closed landfill or a unit closed as a landfill (e.g., surface impoundments and waste piles)?	___	X
2. Migration of Subsurface Gas to On-site or Off-site Buildings		
o Are on-site or off-site buildings close to the unit?	X	___
o Do natural or engineered barriers prevent gas migration from the unit to on-site or off-site buildings (e.g., low soil permeability and porosity hydrogeologic barriers/liners, slurry walls, gas control systems)?	___	X
o Do natural site characteristics or man-made structures (e.g., underground power transmission lines, sewer pipes/sand and gravel lenses) facilitate gas migration from the unit to buildings?	___	X
Determining the Relative Effect of the Release on Human Health and the Environment		
1. Exposure Potential		
o Does building usage (e.g., residential, commercial) exhibit high potential for exposure?	___	X

1. CONTAINMENT

Hazardous substances present:

Waste oil

Type of containment, if applicable:

sealed underground container

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

N/A

Ignitability

Compound used:

Waste oil

Reactivity

Most reactive compound:

None

Incompatibility

Most incompatible pair of compounds:

None

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

1000 gal

Basis of estimating and/or computing waste quantity:

Based on tanks holding capacity.

3. TARGETS

Distance to Nearest Population

less than 10 feet

Distance to Nearest Building

less than 10 feet

Distance to Sensitive Environment

Distance to wetlands:

Greater than 100 feet

Distance to critical habitat:

Greater than 1/2 mile

Land Use

Distance to commercial/industrial area, if 1 mile or less:

The INEL is a research facility. There are no commercial/ industrial facilities within 1 mile.

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Greater than 2 miles

Distance to residential area, if 2 miles or less:

Greater than 2 miles

Distance to agricultural land in production within past 3 years, if 1 mile or less:

Greater than 1 mile

Distance to prima agricultural land in production within past 3 years, if 2 miles or less:

Greater than 2 miles

If a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Big southern Butte

Population Within 2-Mile Radius

1214

Buildings Within 2-Mile Radius

42 occupied CFA Building

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None

2. ACCESSIBILITY

Describe type of barrier(s):

24 hour surveillance System by INEL personnel.

3. CONTAINMENT

Type of containment, if applicable:

Sealed underground container

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Waste oil

Compound with highest score:

5. TARGETS

Population within one-mile radius

1214

Distance to critical habitat (of endangered species)

Greater than 1 mile

GENERAL TANK DATA CHECKLIST [1]

TANK NUMBER CFA 744

Doc. #		Received
1)	Database Current Status Report	X
2)	Database Initial Profile Sheet	X
3)	Tank Location Map	X
4)	Tank Location Photographs	

[1] Revised 2/1/91

09079

INEL UNDERGROUND STORAGE TANKS

JERAL TANK INFORMATION

TANK ID: 744	COCA NUM: CFA-30	OTHER TANK NUM:	
FACILITY: CFA	BUILDING NUM: 665	IDAHO NO.	
AREA:	DRAWING NUM:	STOCK NO. 11-00001	INVEN LOC: O1TMP239
DOE CONTRACTOR: EG&G	TANK OWNER: K.R. THURMAN	OWNER PHONE: 6-2830	
CONTACT NAME: K.E. HAINES	CONTACT PHONE: 6-2075		

TANK STATUS

TANK TYPE: UST	AGE 1988: 28	EMPTY:	
CONTENTS: WASTE OIL	TYPE OF CONT: PETROLEUM	DIA.:	
CAPACITY/GALLONS: 1000	REMAINING GALS:	DEPTH:	
LAB RESULTS:	SAMPLED DATE:	DEFERRED: NO	
CURRENT STATUS: REMOVED	FUNCTION: WASTE OIL	GALS REMVD: 0	
	DATE REMOVED: 09/29/89		
TE INSTALLED: 1960	DATE LAST USED: 1989	EMPTIED DATE:	
G 280: YES			

CONSTRUCTION

CONSTRUCTION MATERIAL: STEEL	PIPING MATERIAL: STEEL
	PIPING TYPE: SUCTION

PROTECTION

INTERNAL PROTECTION: NONE	EXTERNAL PROTECTION: NONE

DETECTION

		DETECTION NOTES: FAILED 08/26/8

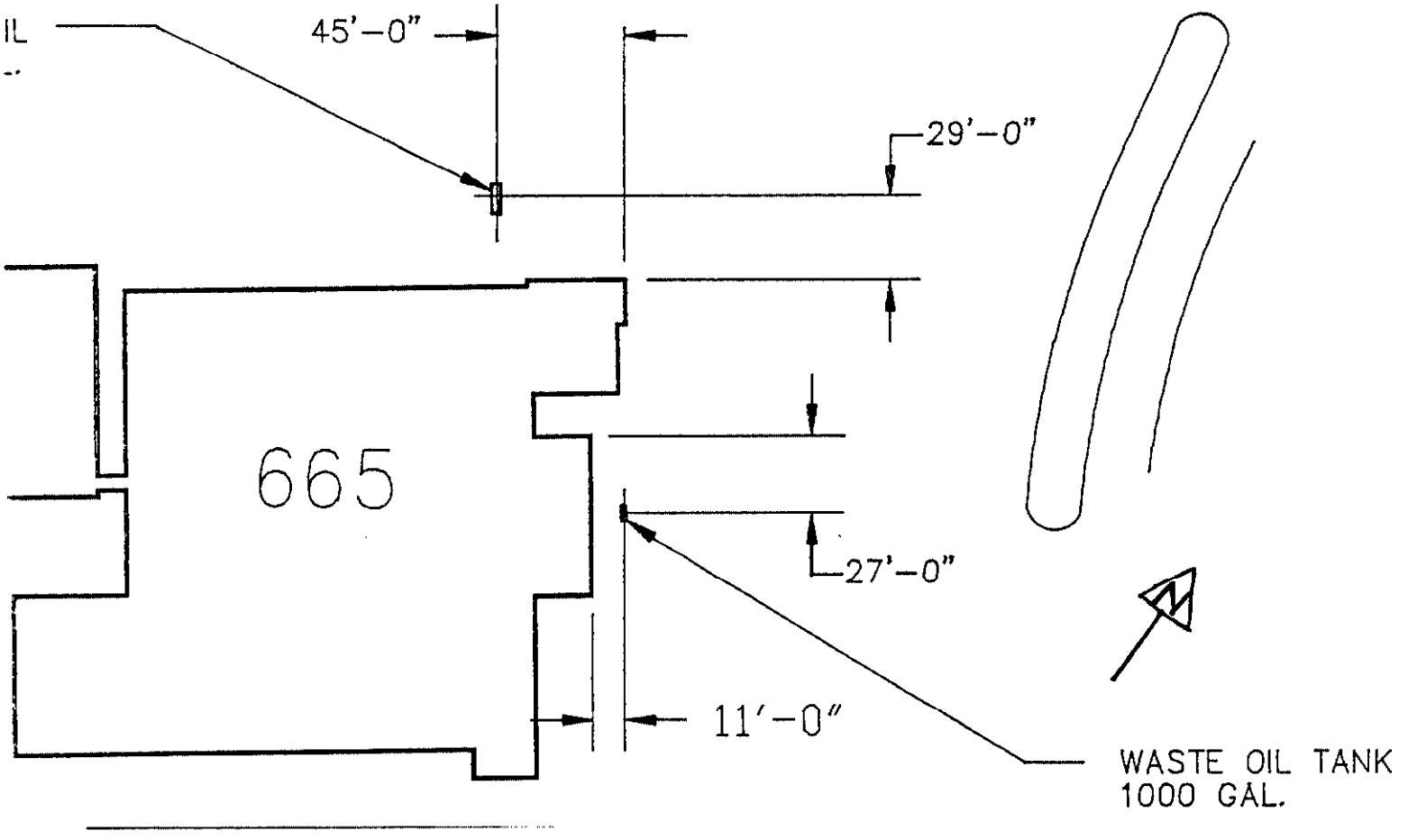
MISC. INFO.

NOTES: ANALYTICAL RESULTS FROM SLUDGE THAT WAS SCRAPED OUT OF THIS TA

UNDERGROUND STORAGE TANK LOCATION
TANK CF-744

LOCATION DESCRIPTION:
See detail map below

REF. DWG. : 423324



UNDERGROUND STORAGE TANK
DATA SHEET

I. AREA/LOCATION ..... CFA - 744

II. TANK IDENTIFICATION NO. CF-744

III. OWNER/OPERATOR ..... USDOE - ID

A. CONTRACTOR OPERATOR ..... EG&G

1. RESPONSIBLE DEPT/ORG ..... F&M Landlord

2. CONTACT NAME & PHONE NO. ..... K. R. Thurman -- 6-2830

IV. SYSTEM/SUBSYSTEM NAME AND PURPOSE (BRIEF DESCRIPTION):
1,000 gallon capacity tank. Used for collection of used and waste oil products from the vehicle maintenance facility at CF-665.

V. CONTENTS:

A. PETROLEUM PRODUCTS ONLY X

B. HAZARDOUS SUBSTANCE (PER CERCLA DEFINITION) .....

C. HAZARDOUS WASTE (COVERED BY RCRA SUBTITLE C) .....

D. RADIOACTIVE MATERIALS (COVERED BY 42 USC 2011 AND FOLLOWING) .....

E. MIXTURE OF RCRA SUBTITLE C WASTE AND OTHER REGULATED SUBSTANCES .....

F. UNKNOWN .....

G. OTHER (EXPLAIN) .....

H. EMPTY - PER UST DEFINITION (LIST PRIOR CONTENTS) .....

Requires, as min, release detect in 1989

Owner Name (from Section I) ______________ Location (from Section II) ______________ Page No. ____ of ____ Pages

IV. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. CF-744 (CF-665)	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (*Mark all that apply* ☒)					
Currently in Use	☒	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☐	☐	☐	☐	☐
Brought into Use after 5-8-86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	29				
3. Estimated Total Capacity (Gallons)	1,000				
4. Material of Construction (*Mark one* ☒)					
Steel	☒	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (*Mark all that apply* ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☒	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (*Mark all that apply* ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☒	☐	☐	☐	☐
Other, Please Specify					
7. Piping (*Mark all that apply* ☒)					
Bare Steel	☒	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (*Mark all that apply* ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☒	☐	☐	☐	☐
Other, Please Specify					
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance					
OR					
Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

09080

INEL TANK DATABASE FORM

Directions for form use: Fill in the blanks with appropriate information and/or highlight the essential information contained between commas. The end result will be a computerized tank database.

Tank Owner: DOE-ID Facility: CFA Tank Number CFA665#744
Responsible Person: CFA Landlord Phone No. 526-2830

Tank Volume: 1,000 gallons
Date Installed: 1960 Source of Date:

EPA Regulated Under: UST, Hazardous Waste, Radioactive Waste, Not Regulated

Tank Reported to EPA: No, Not Required, Yes - Date:

Contents: Unknown, Empty, Empty and Clean, No. 2 - Diesel, No. 1 - Diesel, Regular Gas, Unleaded Regular Gas, Super Unleaded Gas, Motor Oil, Waste Oil, Solvent ( ), Hydraulic Fluid, Aviation Gas (JP-4), Radioactive Waste, Hazardous Waste ( ), Other ( )

Function: Unknown, Vehicle Fuel or Oils, Aviation Fuel or Oils, Waste Oil, Heating Oil, Emergency Generator, Wastewater, Septic Tank, Sump, Pesticides, Fertilizer, Electrical Equipment, Flow Through Process Tank, Other ( )
Radioactive Waste ( )
Hazardous Waste ( )

Tank Status: In Use, Standby with Product, Standby Empty, To Be Closed, Not Operational After March 1987, On COCA List, Temporarily Closed, To Be Removed, Date Removed: .
To Be Abandoned-in-Place, Date of Abandonment: .
Inert Fill Material (Unknown, Concrete, Sand, Other)
Other

Construction:
- Material: Unknown, Carbon Steel, Stainless Steel, Aluminum, Plastic/Fiberglas, Concrete,
- Wall Type: Unknown, Single, Double, Round, Rectangular,
- Installation: Unknown, Horizontal, Vertical,
- Covering: Concrete, Asphalt, Gravel, Grass, Earth,
- Other Notes: Secondary Containment,

Protection:
- External: Unknown, None, Asphalt, Plastic/Fiberglas, Paint, Other
- Internal: Unknown, None, Epoxy, Other
- Cathodic: Unknown, None, Anode, Impressed Current, Other

Piping System:
- Type: Unknown, Pressure, Suction, Vapor Recovery Syst
- Material: Unknown, Steel, Coated Steel, Plastic/Fiberglas Other
- Wall: Unknown, Single, Double,
- Installation: Open, Lined, Lined - Leak Detection Equipment
- Cathodic Protection: Unknown, None, Anode, Impressed Current,

Tank Drawings: Not Available, Original, As Built,
Drawing No. _____

Tank Dimensions: Diameter _____ Length _____

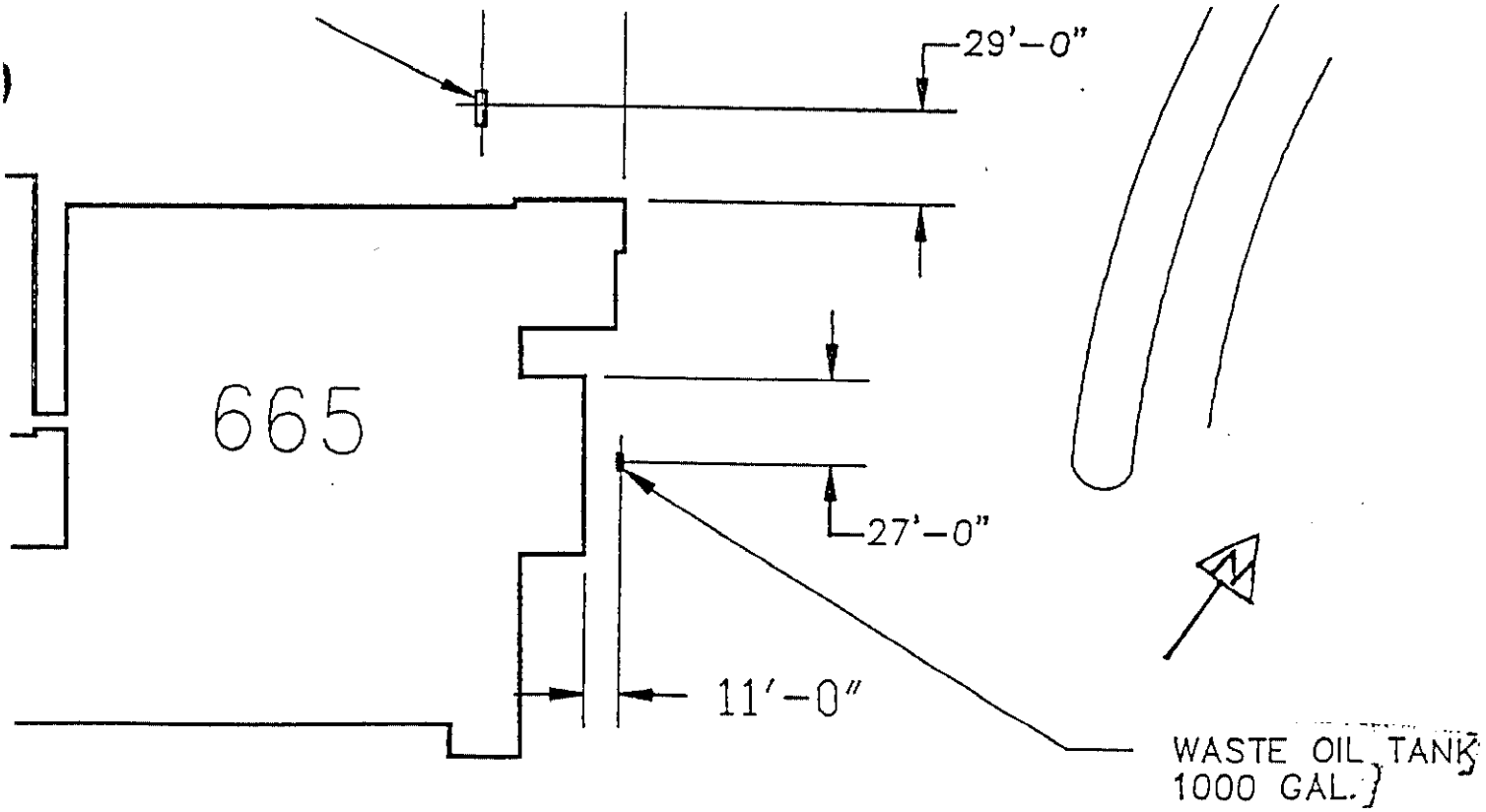
Ports:	Manway:	Unknown, No, Yes, Size
	Fill:	At Tank, Remote, Size
		Locked Cap, Spill/ Overfill Protection,
	Gauging:	None, Separate, Size
	Vent Pipe:	Size

End Design: Unknown, Flat, Hemispherical, Ellipsoidal, Other

Pumping System: Turbine Pump in Tank, Above Ground Pump, Dispenser Pump
Drop Tube: Unknown, None, Permanent, Removable,

Additional Design/Construction Notes:

Site Location Sketch:



Volume Calibration Chart: No Chart, Chart Required, Chart Not Required,
Strapping Date:_____ By:_____

Tank Tightness Tested: Date:_____ By:_____
Method:_____
Results:_____
_____
Repairs:_____
_____

Tank Condition: Internal Inspection Date: _____ By: _____
Results: _____

Volume Gauging: Unknown, None, Stick (Daily, Weekly, Monthly, _____)
Mechanical Ball, Float, Tape, Tape and Ball, Electronic,
Automatic Tank Gauge - Type:

Inventory Control: Input Meter: Deliver Truck, Slick Gauged, Mechanical Meter,
Temperature Compensated Meter,
Withdrawal: Unknown, None, Mechanical Meter, Temperature
Compensated Meter,

Inventory Records: None, Yes (_____ years), Not Required, Required,
Content Level: (Stable, Drops, Raises)
Water Present: (Yes/No)
Other Comments:

Leak Detectors: Unknown, None, Internal, External, Interstitial,
Type/Brand:

Tank Modifications and Upgrades:

Monitoring Equipment:	Date:_____	Type:_____
Piping Leak Detection:	Date:_____	Type:_____
Spill and Overfill:	Date:_____	Type:_____
Corrosion Protection:	Date:_____	Type:_____

Monthly Monitoring Method:
Automatic Tank Gauging with Inventory Control
Vapor Monitoring
Interstitial Monitoring
Other Methods:
Pipe Leak Detection Equipment

INEL TANK DATABASE FORM (Continued - Page 4)
GENERAL SITE ENVIRONMENTAL INFORMATION

Elevation Above Mean Sea Level:	4,900 ft.
Groundwater (GW) Depth:	400 to 600 ft.
Adjacent Exist GW Monitoring Well:	Yes, No, Approx. Distance:_____ft
Groundwater Test Well Required:	Yes, No, To-Be-Determined
Adjacent Surface Water:	None, Lake, River, Stream, Canal Unknown, Other:_____
Adjacent Underground Utilities:	Unknown, None, Gas, Water, Phone, Sewer, Electricity, Other_____
Adjacent Sensitive Land Use:	None, Home, School, Farm, Other:____
Tank Backfill Material	_____
Base Soil pH Factor:	Range: 3.9 to 7.0. - Acidic
UST Site Soil pH Factor:	_____
Hydraulic Conductivity & Direction:	Range: $1X10^{-3}$ to $2X10^{-1}$ cm/s to ___
Specific Resistivity Factor:	_____ to _____ mohms/cm
Soil Type:	Unknown, Sand, Gravel, Rock, Clay Loam, (Combination), Other_____
Soil Chemical Concentration:	Chloride, Sulphide], Other:_____
Product Soil Contamination:	Previous, Continued, Visual, Smell Fill Pipe Spill, Groundwater Test, Contamination History: _____
Random DC Current in UST Area:	Unknown, Yes, No, Value: _____ volts.

How far (distance) is tank from water contamination source.

C 9020

INEL TANK DATABASE FORM

Directions for form use: Fill in the blanks with appropriate information and/or highlight the essential information contained between commas. The end result will be a computerized tank database.

Tank Owner: [illegible] Facility: CFA 666 Tank Number waste oil 744
Responsible Person: [illegible] Phone No. 6-2255

Tank Volume: 1,000 gallons
Date Installed: _____ Source of Date: [illegible]

EPA Regulated Under: UST, Hazardous Waste, Radioactive Waste, Not Regulated

Tank Reported to EPA: No, Not Required, Yes - Date: Feb 27 1985

Contents: Unknown, Empty, Empty and Clean, No. 2 - Diesel, No. 1 - Diesel, Regular Gas, Unleaded Regular Gas, Super Unleaded Gas, Motor Oil, Waste Oil, Solvent ( ), Hydraulic Fluid, Aviation Gas (JP-4), Radioactive Waste, Hazardous Waste ( ), Other ( )

Function: Unknown, Vehicle Fuel or Oils, Aviation Fuel or Oils, Waste Oil, Heating Oil, Emergency Generator, Wastewater, Septic Tank, Sump, Pesticides, Fertilizer, Electrical Equipment, Flow Through Process Tank, Other ( )
Radioactive Waste ( )
Hazardous Waste ( )

Tank Status: In Use, Standby with Product, Standby Empty, To Be Closed, Not Operational After March 1987, On COCA List, Temporarily Closed, To Be Removed, Date Removed: .
To Be Abandoned-in-Place, Date of Abandonment: .
Inert Fill Material (Unknown, Concrete, Sand, Other)
Other

Construction:
- Material: Unknown, Carbon Steel, Stainless Steel, Aluminum, Plastic/Fiberglas, Concrete,
- Wall Type: Unknown, Single, Double, Round, Rectangular,
- Installation: Unknown, Horizontal, Vertical,
- Covering: Concrete, Asphalt, Gravel, Grass, Earth,
- Other Notes: Secondary Containment,

Protection:
- External: Unknown, None, Asphalt, Plastic/Fiberglas, Paint, Other
- Internal: Unknown, None, Epoxy, Other
- Cathodic: Unknown, None, Anode, Impressed Current, Other

Piping System:
- Type: Unknown, Pressure, Suction, Vapor Recovery Syst
- Material: Unknown, Steel, Coated Steel, Plastic/Fiberglas Other
- Wall: Unknown, Single, Double,
- Installation: Open, Lined, Lined - Leak Detection Equipment
- Cathodic Protection: Unknown, None, Anode, Impressed Current,

Tank Drawings: Not Available, Original, As Built,
Drawing No. [illegible]

Tank Dimensions: Diameter [illegible] Length [illegible]

Ports: Manway: Unknown, No, Yes, Size [illegible]
Fill: At Tank, Remote, Size
Locked Cap, Spill/ Overfill Protection,
Gauging: None, Separate, Size [illegible]
Vent Pipe: Size [illegible]

End Design: Unknown, Flat, Hemispherical, Ellipsoidal, Other

Pumping System: Turbine Pump in Tank, Above Ground Pump, Dispenser Pump
Drop Tube: Unknown, None, Permanent, Removable,

Additional Design/Construction Notes:

Site Location Sketch:

[illegible] (744)

N

[illegible] PART OF

CFA 665

Volume Calibration Chart: No Chart, Chart Required, Chart Not Required,
Strapping Date:_____ By:_____

Tank Tightness Tested: Date:_____ By:_____
Method:_____
Results:_____
_____
Repairs:_____
_____

Tank Condition: Internal Inspection Date: _____ By: _____
Results: _____

Volume Gauging: Unknown, None, Stick (Daily, Weekly, Monthly, _____)
Mechanical Ball, Float, Tape, Tape and Ball, Electronic,
Automatic Tank Gauge - Type:

Inventory Control: Input Meter: Deliver Truck, Slick Gauged, Mechanical Meter,
Temperature Compensated Meter,
Withdrawal: Unknown, None, Mechanical Meter, Temperature
Compensated Meter,

Inventory Records: None, Yes (years), Not Required, Required,
Content Level: (Stable, Drops, Raises)
Water Present: (Yes/No)
Other Comments:

Leak Detectors: Unknown, None, Internal, External, Interstitial,
Type/Brand:

Tank Modifications and Upgrades:

Monitoring Equipment:	Date:_____	Type:_____
Piping Leak Detection:	Date:_____	Type:_____
Spill and Overfill:	Date:_____	Type:_____
Corrosion Protection:	Date:_____	Type:_____

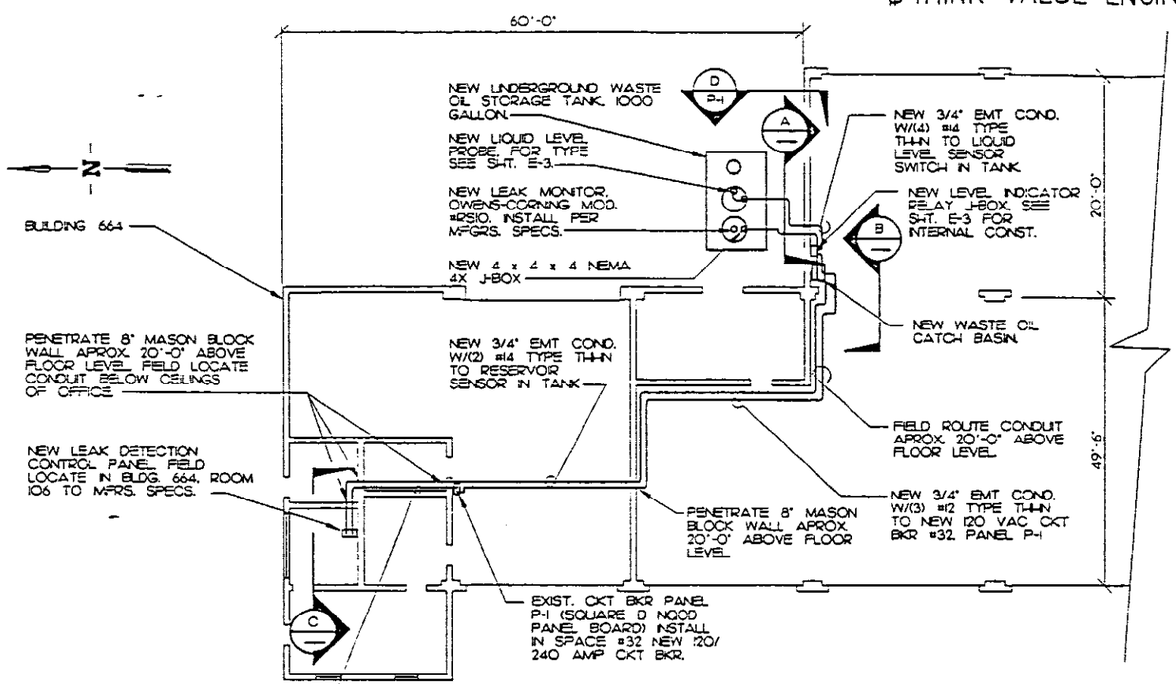
Monthly Monitoring Method:
Automatic Tank Gauging with Inventory Control
Vapor Monitoring
Interstitial Monitoring
Other Methods:
Pipe Leak Detection Equipment

INEL TANK DATABASE FORM (Continued - Page 4)
GENERAL SITE ENVIRONMENTAL INFORMATION

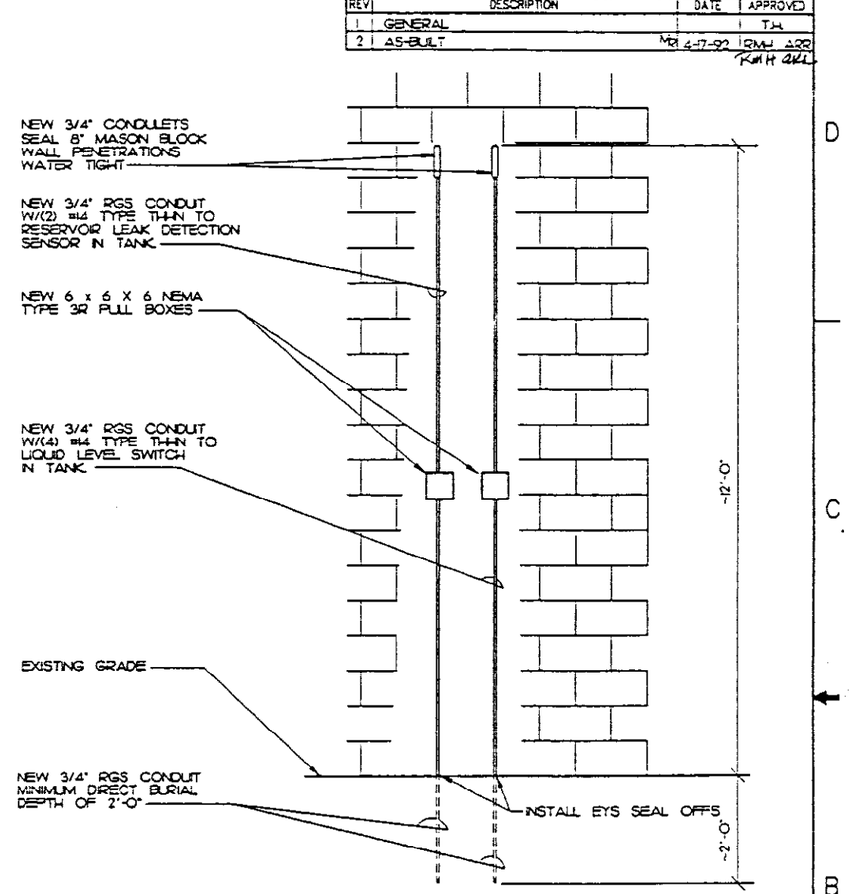
Elevation Above Mean Sea Level:	_____ ft.
Groundwater (GW) Depth:	_____ to _____ ft.
Adjacent Exist GW Monitoring Well:	Yes, No, Approx. Distance:_____ft
Groundwater Test Well Required:	Yes, No, To-Be-Determined
Adjacent Surface Water:	None, Lake, River, Stream, Canal Unknown, Other:_____
Adjacent Underground Utilities:	Unknown, None, Gas, Water, Phone, Sewer, Electricity, Other_____
Adjacent Sensitive Land Use:	None, Home, School, Farm, Other:____ _____
Tank Backfill Material	_____
Base Soil pH Factor:	Range: 3.9 to 7.0. - Acidic
UST Site Soil pH Factor:	_____
Hydraulic Conductivity & Direction:	Range:$1X10^{-3}$to $2X10^{-1}$cm/s to ___ _____
Specific Resistivity Factor:	_____ to _____ mohms/cm
Soil Type:	Unknown, Sand, Gravel, Rock, Clay Loam, Combination, Other_____ _____
Soil Chemical Concentration:	Chloride, Sulphide], Other:_____ _____
Product Soil Contamination:	Previous, Continued, Visual, Smell Fill Pipe Spill, Groundwater Test, Contamination History: _____ _____ _____
Random DC Current in UST Area:	Unknown, Yes, No, Value: _____ volts.

HOW FAR FROM ANOTHER (DISTANCE)

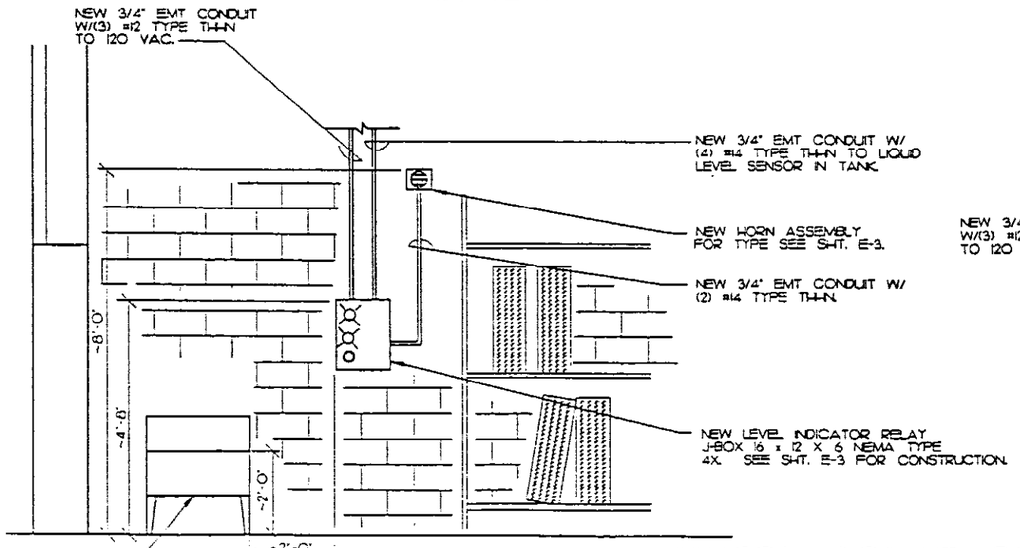
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		TJH
2	AS-BUILT	4-17-92	RMH ARR



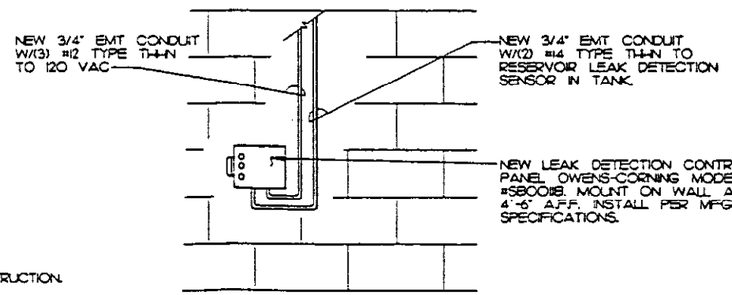
PLAN
N.T.S.



VIEW A



VIEW B



VIEW C

NOTES:

1. FIELD ROUTE ELEC. CONDUIT ALONG CEILING OF HIGH BAYS AND BELOW CEILING OF OFFICE AREAS.
2. SEAL ALL PENETRATIONS TO EXISTING INTERNAL WALLS WITH GROUT AFTER CONDUIT INSTALLATION.

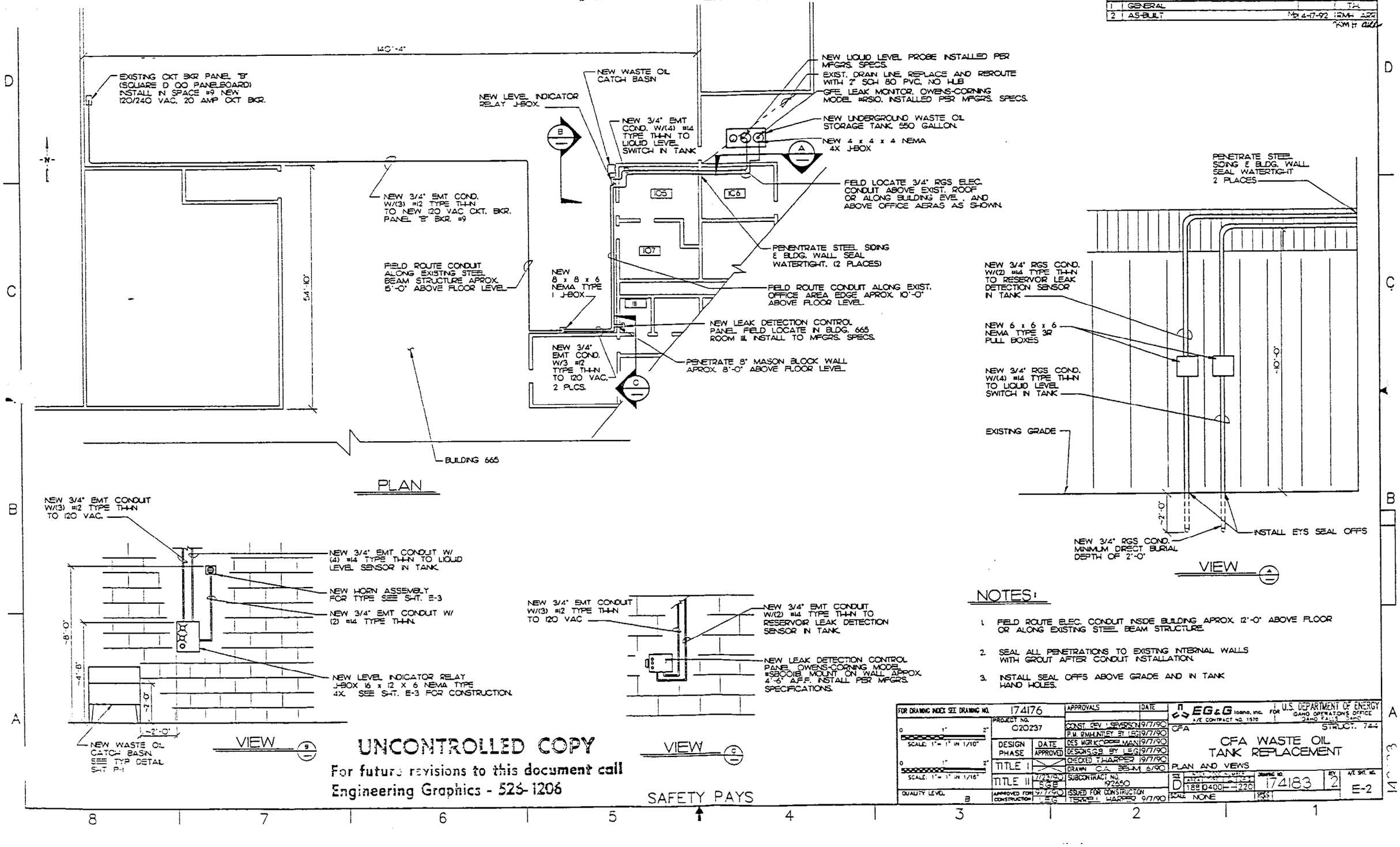
SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176	APPROVALS	DATE	EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO
PROJECT NO. 020237	CONST. REV. / SEVERSON	9/7/90	CFA STRUCT.743
	P.M. R.M. HUNTLEY BY LEG	9/7/90	CFA WASTE OIL TANK REPLACEMENT
SCALE: 1"=1" IN 1/10"	DES MGR KOPPEMAN	9/7/90	PLAN AND VIEWS
SCALE: 1"=1" IN 1/16"	DESIGNED BY LEG	9/7/90	
DESIGN PHASE / DATE APPROVED	CHECKED T.HARPER	9/7/90	
TITLE I	DRAWN C.A. BEHM	9/90	
TITLE II 7/25/90 LEG	SUBCONTRACT NO. 192650		SIZE D; DRAWING NO. 174182; REV. 2; A/E SHT. NO. E-1
QUALITY LEVEL B	APPROVED FOR CONSTRUCTION 9/7/90 LEG	ISSUED FOR CONSTRUCTION TERRY HARPER 9/7/90	SCALE NONE

1426

$ THINK VALUE ENGINEERING $

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		TJL
2	AS-BUILT	4-17-92	RMH AJR



NOTES:

1. FIELD ROUTE ELEC. CONDUIT INSIDE BUILDING APROX. 12'-0" ABOVE FLOOR OR ALONG EXISTING STEEL BEAM STRUCTURE.
2. SEAL ALL PENETRATIONS TO EXISTING INTERNAL WALLS WITH GROUT AFTER CONDUIT INSTALLATION.
3. INSTALL SEAL OFFS ABOVE GRADE AND IN TANK HAND HOLES.

SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176
PROJECT NO. C20237
SCALE: 1"=1" IN 1/10"
SCALE: 1"=1" IN 1/16"
QUALITY LEVEL B

DESIGN PHASE	DATE APPROVED
TITLE I	
TITLE II	7/23/90 SGE
APPROVED FOR CONSTRUCTION	9/7/90

APPROVALS	DATE
CONST. REV. SUPERVISOR	9/7/90
P.M. QA HUNTLEY BY J.EG	9/7/90
DES. MGR. KOPPEL MAN	9/7/90
DESIGNED BY J.EG	9/7/90
CHECKED T.HARPER	9/7/90
DRAWN C.A. BEHM	8/90
SUBCONTRACT NO. 92650	
ISSUED FOR CONSTRUCTION	
TECH. T. HARPER	9/7/90

EG&G Idaho, Inc. A/E CONTRACT NO. 1570 | U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

CFA STRUCT. 744

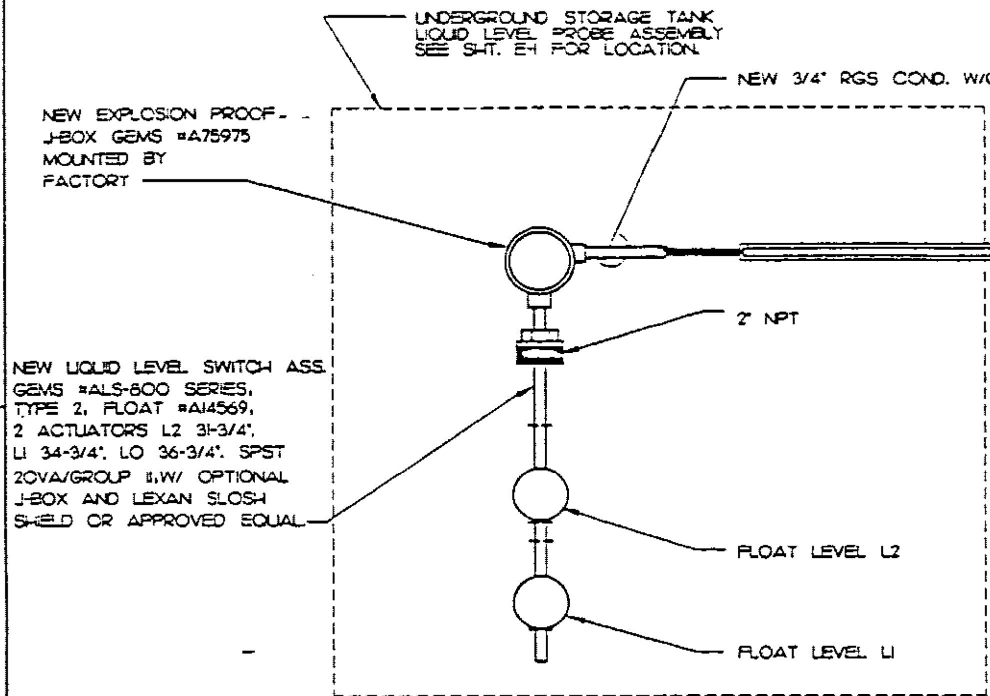
CFA WASTE OIL TANK REPLACEMENT

PLAN AND VIEWS

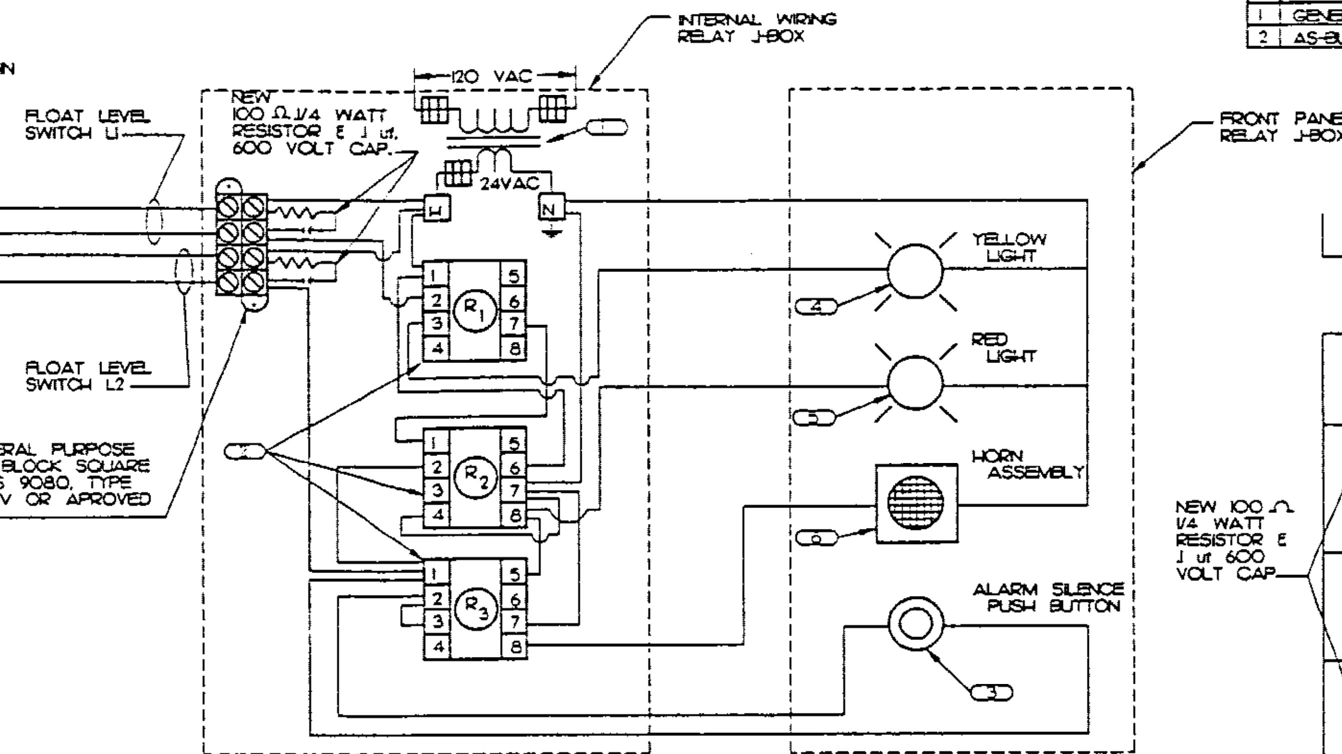
SIZE D | 189 D400 | 220 | DRAWING NO. 174183 | REV. 2 | A/E SHT. NO. E-2

SCALE: NONE

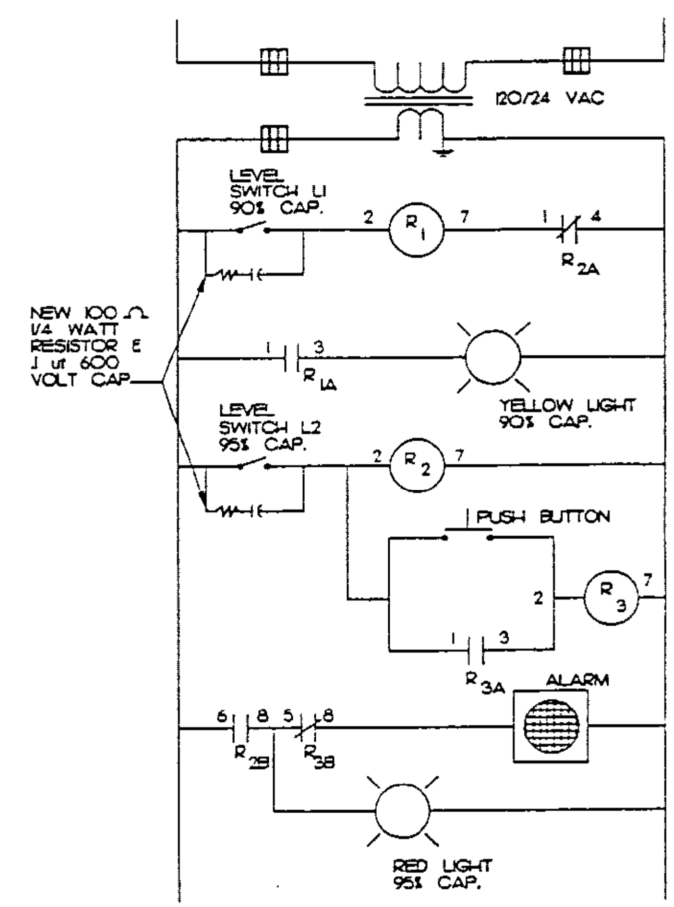
$ THINK VALUE ENGINEERING $



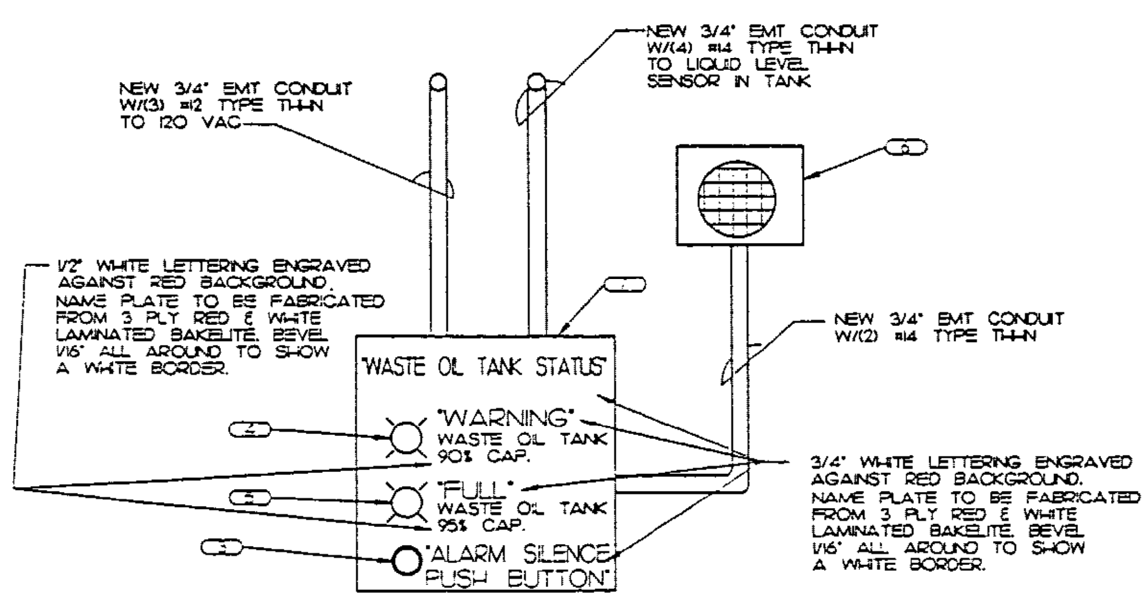
LIQUID LEVEL PROBE ASSEMBLY



LEVEL INDICATOR WIRING DIAGRAM



LOGIC DIAGRAM



LEVEL INDICATOR RELAY J-BOX

QUALITY LEVEL	PART OR IDENTIFYING #	DESCRIPTION/MTRL/ SPECIFICATION	MANUFACTURER OR EQUAL	ITEM NUM.
B	9070-K50-D13 WITH / AP-1	TRANSFORMER WITH FUSE BLOCK 120/24VAC	SQUARE "D"	1
B	8501-KP-12 W/NR-51 & NH-2	RELAY W/ RETAINER CLIP & SOCKET 24VAC	SQUARE "D"	2
B	9001-KA2	OILTIGHT/ WATERTIGHT PUSH BUTTON N.O. CON.	SQUARE "D"	3
B	9001-KP35Y9	OILTIGHT/ WATERTIGHT PILOT LIGHT 24VAC YELLOW LENS	SQUARE "D"	4
B	9001-KP35R9	OIL TIGHT/ WATERTIGHT PILOT LIGHT 24VAC RED LENS	SQUARE "D"	5
B	350-24VAC-WB	HORN ASSEMBLY 24 VAC	FEDERAL SIGN CORP.	6
B	A-U6H1206LP WITH A-16P12	16 x 12 x 6 NEMA TYPE 4X ENCLOSURE WITH MOUNTING PANEL	HOFFMAN	7

NOTES:

1. ALL POWER CONDUCTORS SHALL BE #12 TYPE THHN UNLESS OTHERWISE SPECIFIED.

SAFETY PAYS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		T.H.
2	AS-BUILT	MP 4-17-92	RMH ARR

RMH ARR

UNCONTROLLED COPY

For future revisions to this document call Engineering Graphics - 526-1206

FOR DRAWING INDEX SEE DRAWING NO. 174176

PROJECT NO. 020237

SCALE: 1" = 1" IN 1/10"

SCALE: 1" = 1" IN 1/16"

QUALITY LEVEL B

DESIGN PHASE	DATE APPROVED
TITLE I	
TITLE II	7/23/90 S.G.B.
APPROVED FOR CONSTRUCTION	9/7/90 L.E.G.

APPROVALS	DATE
CONST. REV. L.SEVERSON	9/7/90
P.M. RAHUNTLEY BY LEG	9/7/90
DES MGR KOPPERMAN	9/7/90
DESIGN S.G.B. BY LEG	9/7/90
CHECKED T.HARPER	9/7/90
DRAWN C.A. BEHM	6/90
SUBCONTRACT NO. 192650	
ISSUED FOR CONSTRUCTION TERREL HARPER	9/7/90

EG&G Idaho, Inc. FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

A/E CONTRACT NO. 1570

CFA 743,744

CFA WASTE OIL TANK REPLACEMENT

WIRING, AND LOGIC DIAGRAMS

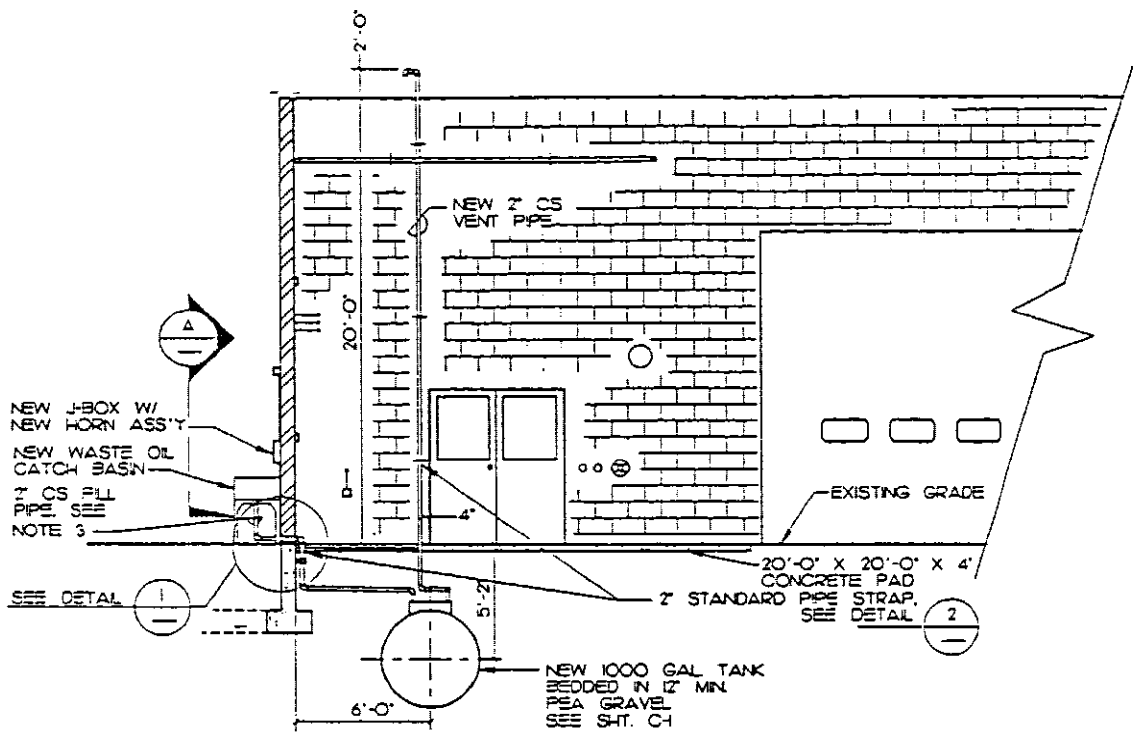
SIZE D | 189 D400 220 | DRAWING NO. 174184 | REV 2 | A/E SHT. NO. E-3

SCALE NONE

9

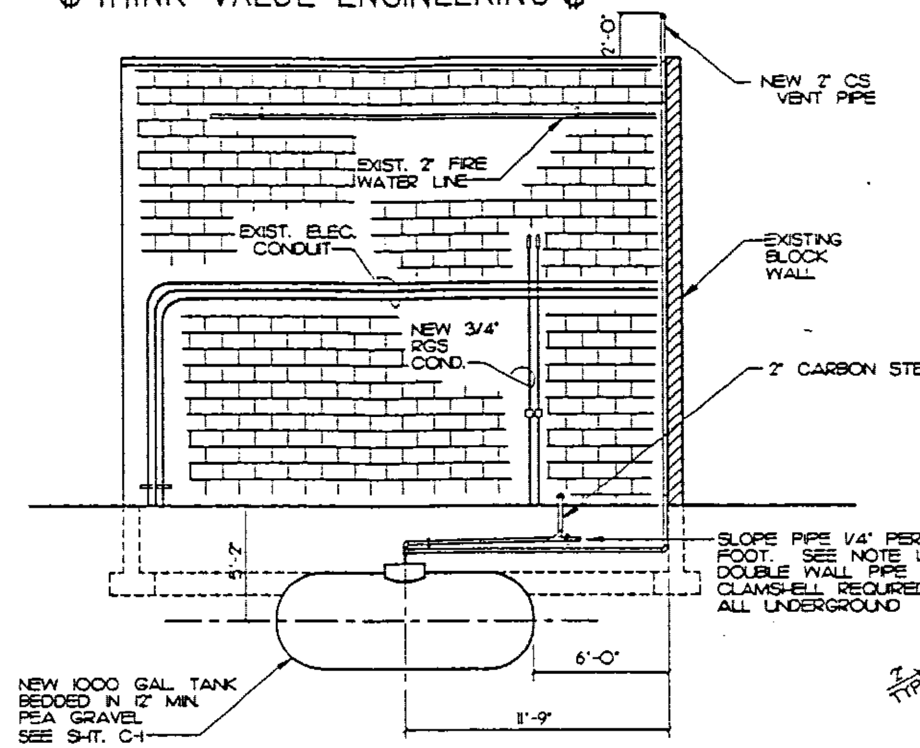
$ THINK VALUE ENGINEERING $

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		T.H.
2	AS-BUILT	4-17-92	RMH ARR KM H 4KK



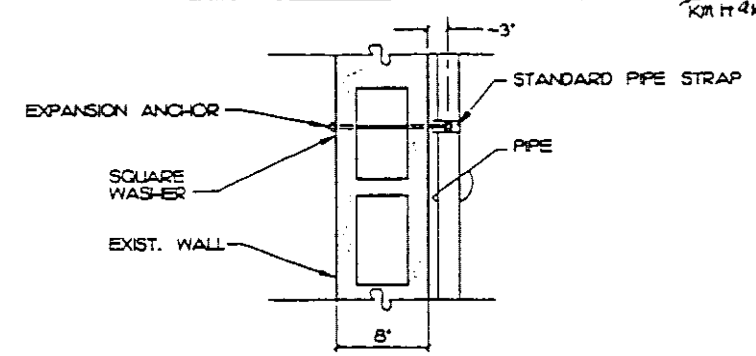
SECTION D/E-1

1/4"=1'-0"



SOUTHEAST EXTERIOR ELEVATION

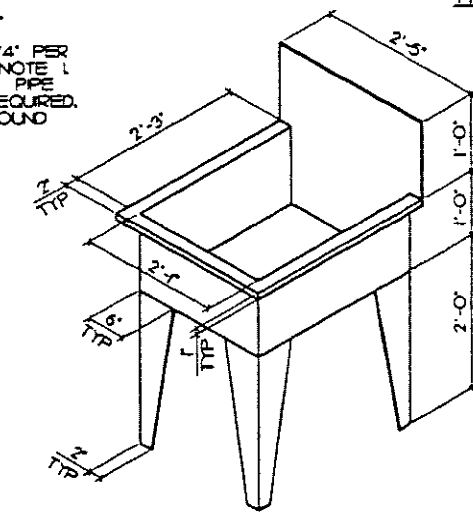
N.T.S.



TYPICAL PIPE SUPPORT

DETAIL 2

N.T.S.

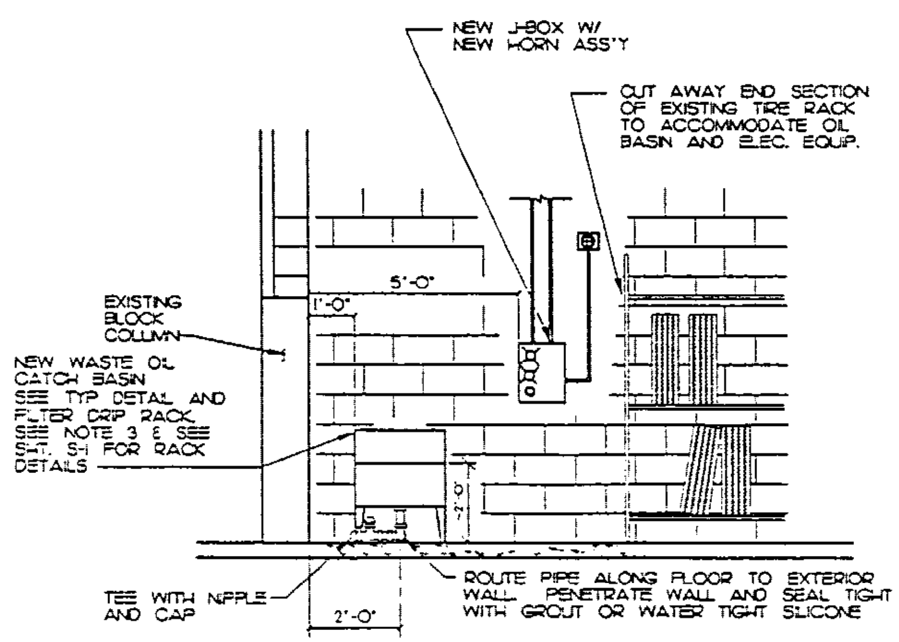


NOTES: (CATCH BASIN ONLY)

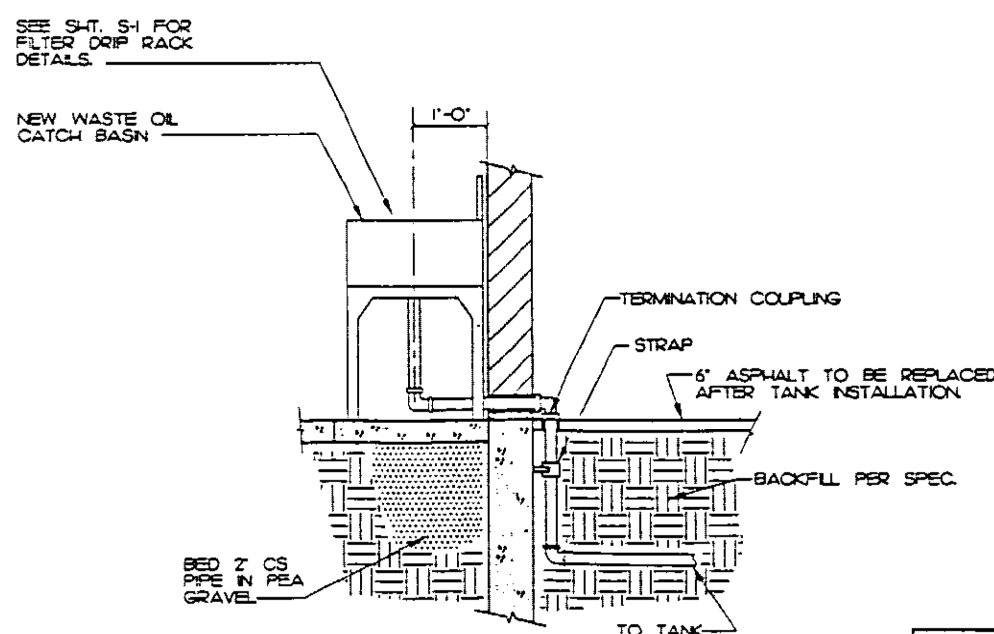
1. MATERIAL IS 12GA GALV.
2. SEAL WELDED WITH SILICONE BRONZE WELD ROD.
3. WELD 3" X 2" CONCENTRIC REDUCER TO CENTER OF SINK BOTTOM.
4. FOR FILTER DRIP RACK SEE DWG 174179.

WASTE OIL CATCH BASIN TYP DETAIL

SCALE: 3/4"=1'-0"



VIEW A



DETAIL 1

3/4"=1'-0"

NOTES:

1. ALL HORIZONTAL CARBON STEEL PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" PER FOOT.
2. ALL PENETRATIONS THRU BLOCK & STEM WALLS SHALL BE SEALED WATER TIGHT WITH GROUT OR WATERPROOF SILICONE.
3. ATTACH 2" CARBON STEEL PIPE TO THE NEW WASTE OIL BASIN WITH A 3" X 2" REDUCER.
4. SUPPLY LINE IS TO BE WELDED, AND VENT LINE IS SCREWED FITTINGS AND PIPE.
5. PIPE SUPPORTS SHALL BE PLACED PER SPECIFICATION SECTION 15404.

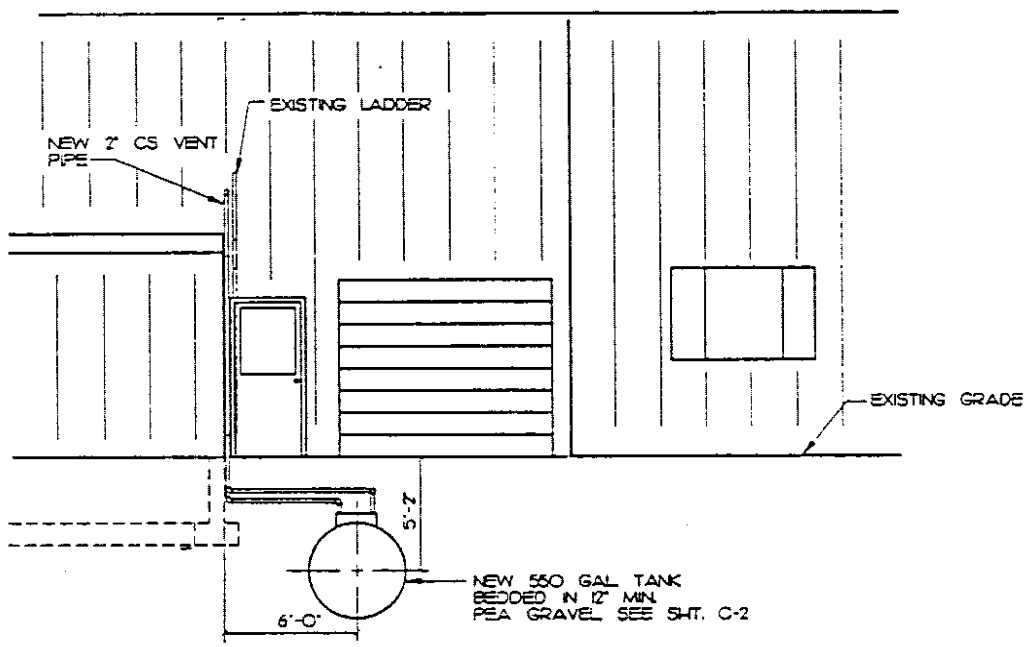
SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176	APPROVALS	DATE	EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO
PROJECT NO. 020237	CONST. T.HARRIS/RWN	9/7/90	CFA STRUCT. 743
SCALE: 1"= 1" IN 1/10"	P.M. [illegible]	9/7/90	CFA WASTE OIL TANK REPLACEMENT
DESIGN PHASE / DATE APPROVED	DES MGR D.L.E.	9/7/90	
TITLE I	DESIGN L.E.GUILLEN	9/7/90	
SCALE: 1"= 1" IN 1/16"	CHECKED T.HARPER	9/7/90	BLDG. 664 SECTION, VIEW, DETAIL ELEVATIONS
TITLE II 7/23/90 L.E.G.	DRAWN C.A. BEHM	6/90	SIZE D 185 0200 501 220 DRAWING NO. 174180 REV 2 A/E SHT. NO. P-1
QUALITY LEVEL B; APPROVED FOR CONSTRUCTION 9/7/90 L.E.G.	SUBCONTRACT NO. 92650; ISSUED FOR CONSTRUCTION TERREL HARPER 9/7/90		SCALE AS SHOWN

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

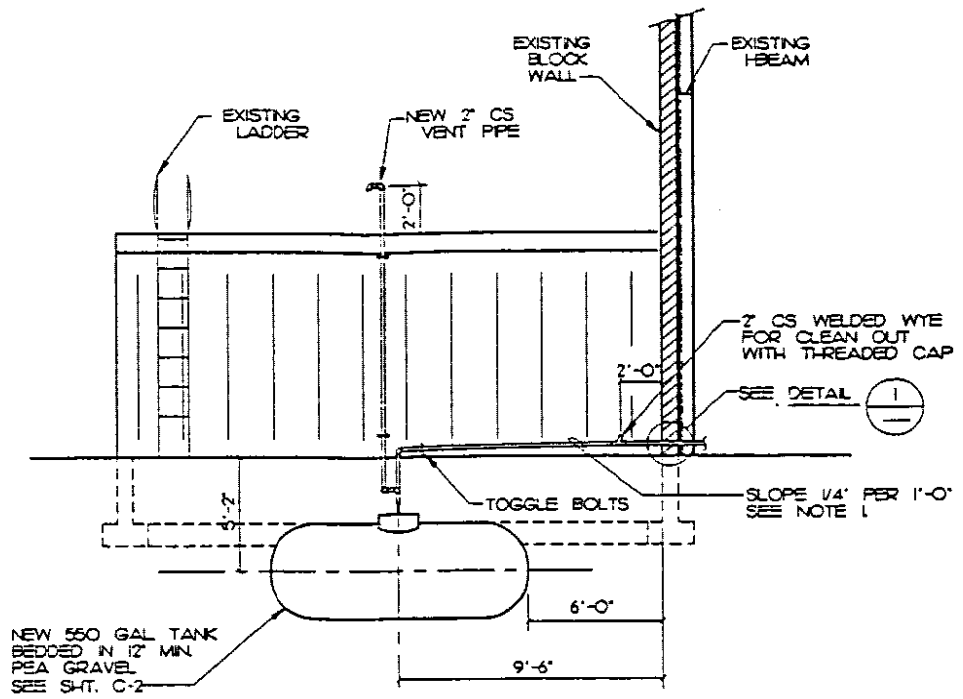
THINK VALUE ENGINEERING

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	AS-BUILT	4-17-92	RMH ARR



SOUTHEAST EXTERIOR ELEVATION

N.T.S.



SOUTHWEST EXTERIOR ELEVATION

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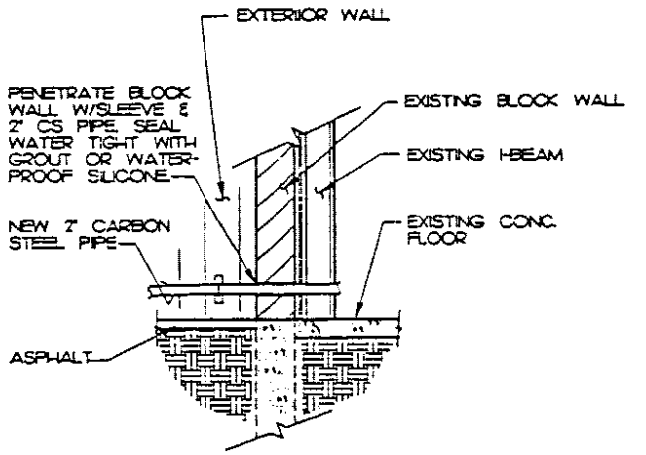
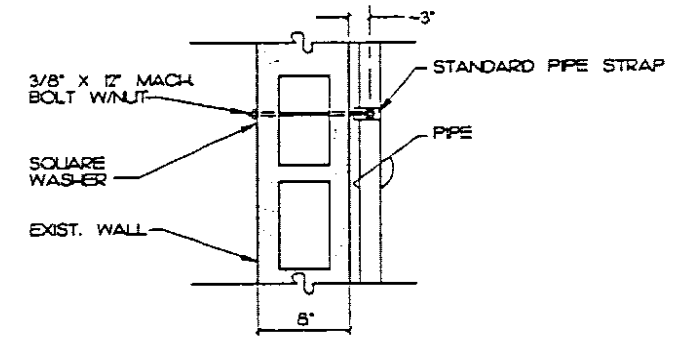


DETAIL 1

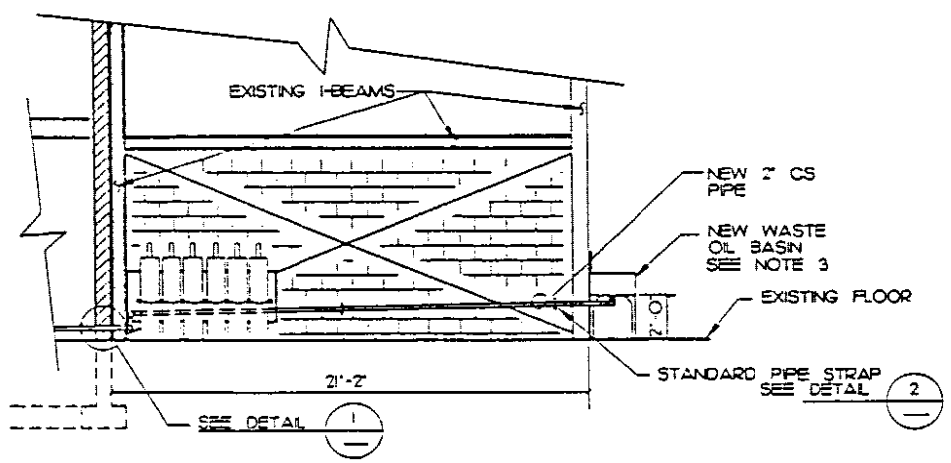
N.T.S.



TYPICAL PIPE SUPPORT

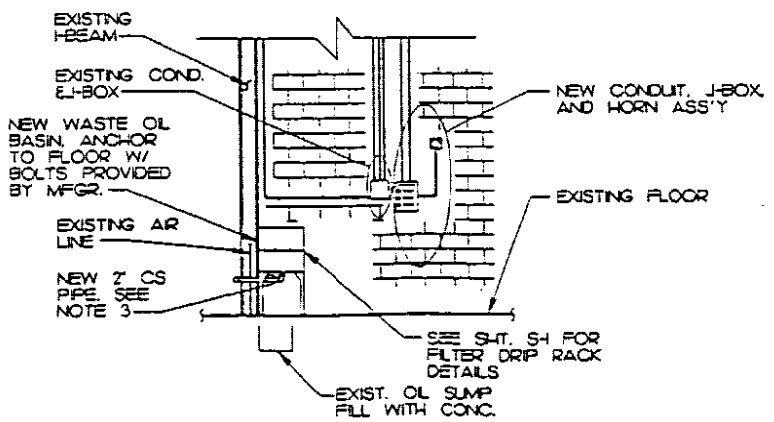
DETAIL 2

N.T.S.



SOUTHEAST INTERIOR ELEVATION

N.T.S.



NORTHEAST INTERIOR ELEVATION

N.T.S.

NOTES:

1. ALL HORIZONTAL CARBON STEEL PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" PER FOOT.
2. ALL PENETRATIONS THRU BLOCK WALLS SHALL BE SEALED WATER TIGHT WITH GROUT OR WATERPROOF SILICONE.
3. ATTACH 2" CARBON STEEL PIPE TO THE NEW WASTE OIL BASIN WITH A 3" X 2" REDUCER.
4. SUPPLY LINE IS TO BE WELDED, AND VENT LINE IS SCREWED FITTINGS AND PIPE.
5. PIPE SUPPORTS SHALL BE PLACED PER SPECIFICATION SECTION 15404.

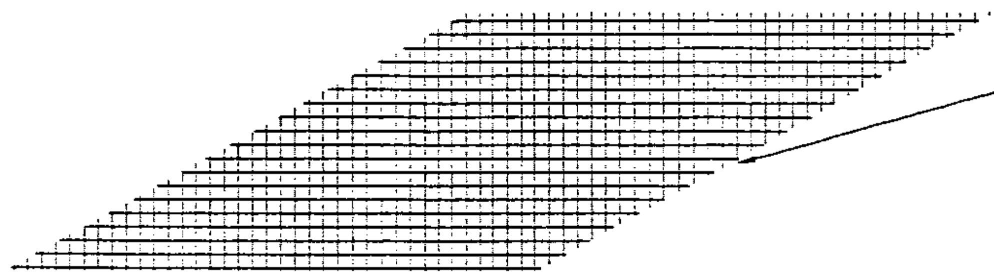
FOR DRAWING INDEX SEE DRAWING NO. 174176			APPROVALS	DATE	EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO
SCALE: 1"= 1" IN 1/10"	PROJECT NO. 020237		CONST. THARRS/RWN	9/7/90	CFA STRUCT. 744
SCALE: 1"= 1" IN 1/16"			P.M. R.M. HUNTLEY	9/7/90	CFA WASTE OIL TANK REPLACEMENT
	DESIGN PHASE	DATE APPROVED	DES MGR D.L.E.	9/7/90	
	TITLE I		DESIGN L.E. GULLEN	9/7/90	BLDG. 665 ELEVATIONS AND DETAILS
	TITLE II	7/25/90 L.E.G.	CHECKED T. HARPER	9/7/90	
QUALITY LEVEL B	APPROVED FOR CONSTRUCTION	9/7/90 L.E.G.	DRAWN C.A. BEHM	6/90	
			SUBCONTRACT NO. 92650		SIZE D; DRAWING NO. 174181; REV 1; A/E DWG. NO. P-2
			ISSUED FOR CONSTRUCTION TROY T. HARPER	9/7/90	SCALE NONE

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

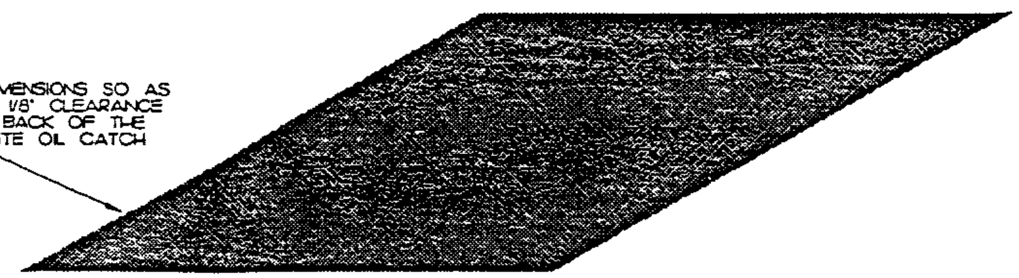
$ THINK VALUE ENGINEERING $

REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		TH
2	AS-BUILT	MGH 4-17-92	RMH ARR KMH 4RK

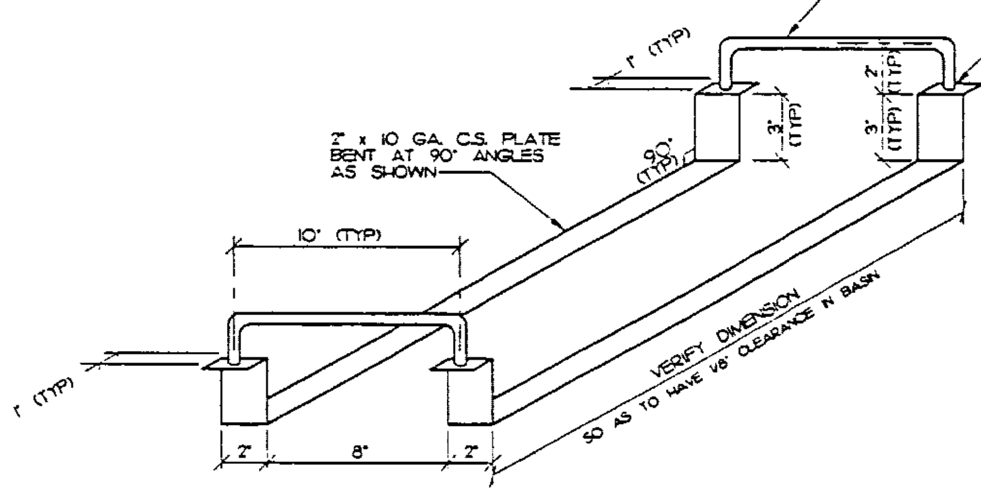
VERIFY DIMENSIONS SO AS TO HAVE 1/8" CLEARANCE FRONT & BACK OF THE NEW WASTE OIL CATCH BASIN.



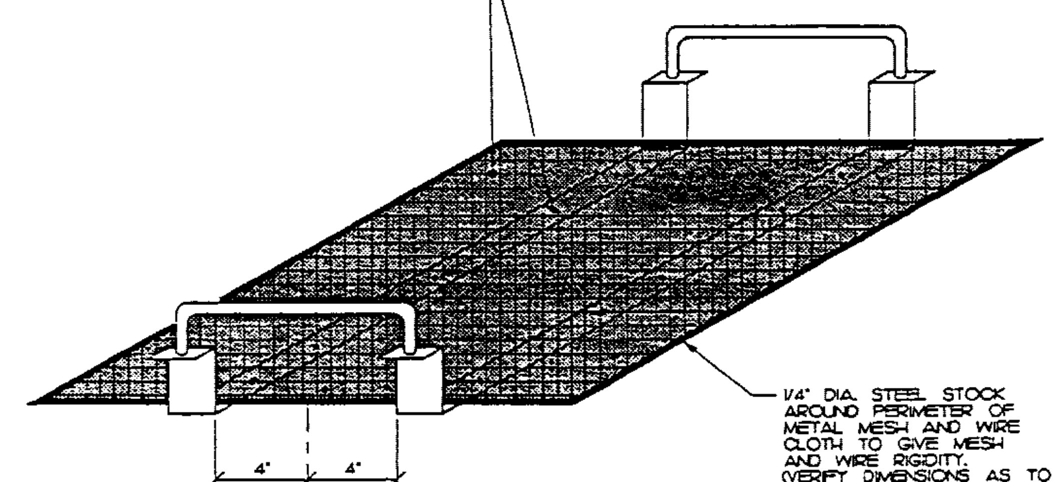
EXPANDED METAL



STEEL WIRE CLOTH



FRAME



FULL ASSEMBLY

FILTER DRIP RACK

3"=1'-0"

NOTES:

1. REFER TO SPECIFICATIONS FOR SPECIFIC TYPES AND SIZES OF METAL MESH AND STEEL WIRE CLOTH.

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For future revisions to this document call Engineering Graphics - 526-1206

SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176	PROJECT NO. 020237	
SCALE: 1" = 1" IN 1/10"	DESIGN PHASE / DATE APPROVED	
SCALE: 1" = 1" IN 1/16"	TITLE I	
	TITLE II 7/25/90	
QUALITY LEVEL B	APPROVED FOR CONSTRUCTION 9/7/90	

APPROVALS	DATE
CONST. T.HARPS/RWN	9/7/90
P.M. DRAWING BY LIS. 3DON	9/7/90
DES. MGR. C.L.E.	9/7/90
DESIGN L.E. GULLE	9/7/90
CHECKED T.HARPER	9/7/90
DRAWN C.A. BEHM	8/9/90
SUBCONTRACT NO. 192650	
ISSUED FOR CONSTRUCTION TERRE HARPER	9/7/90

EG&G Idaho, Inc. A/E CONTRACT NO. 1570 — FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

CFA 664 AND 665

CFA WASTE OIL TANK REPLACEMENT

FILTER DRIP RACK

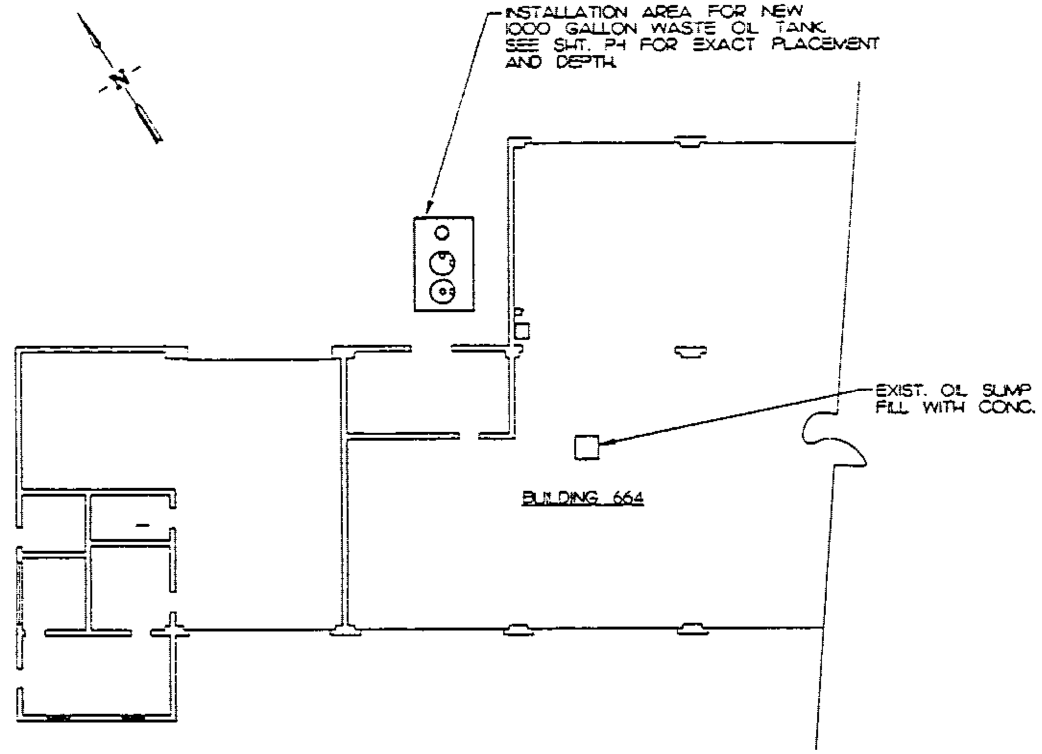
SIZE D — 188 0300 011220 — DRAWING NO. 174179 — REV 2 — A/E SHT. NO. S-1

SCALE AS SHOWN

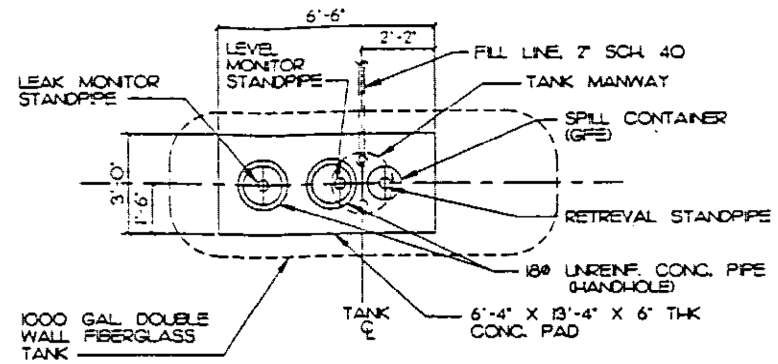
029

$ THINK VALUE ENGINEERING $

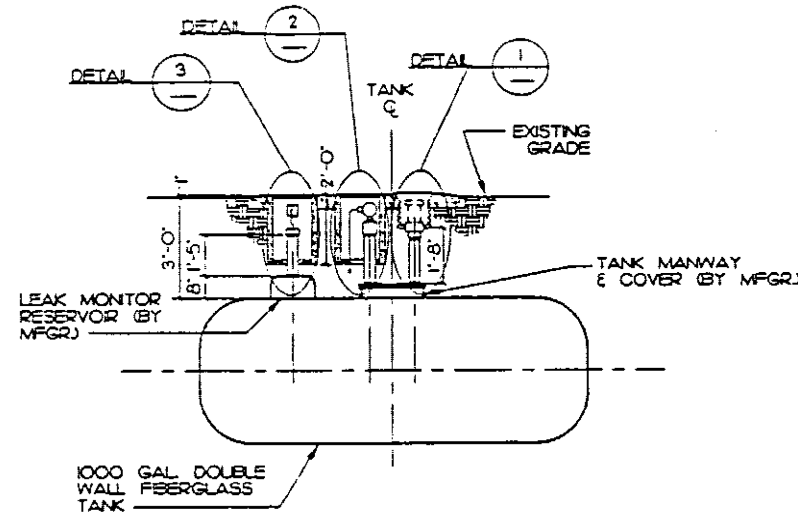
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		T.H.
2	AS-BUILT	4-17-92	RMH ARR



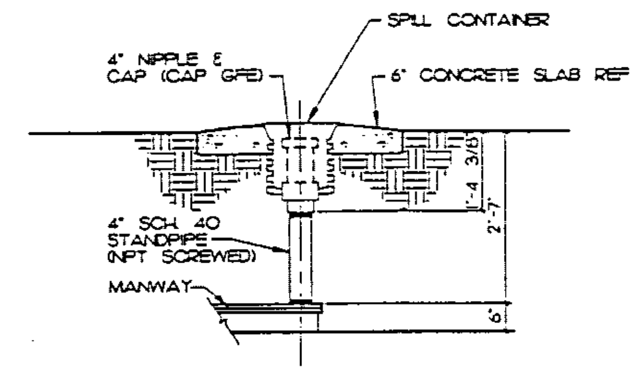
PLAN
N.T.S.



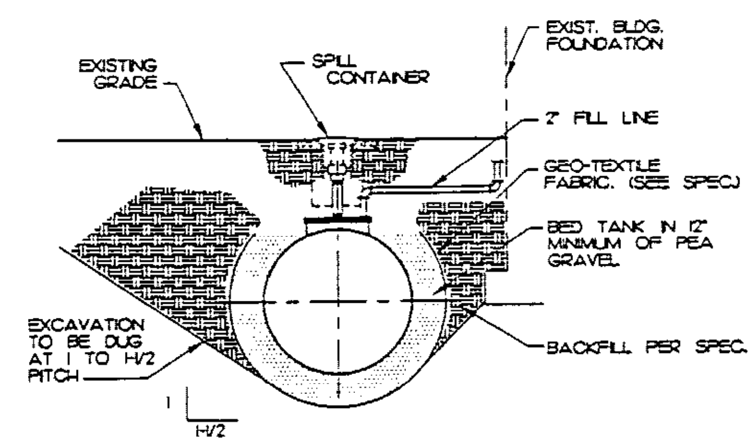
PLAN VIEW
N.T.S.



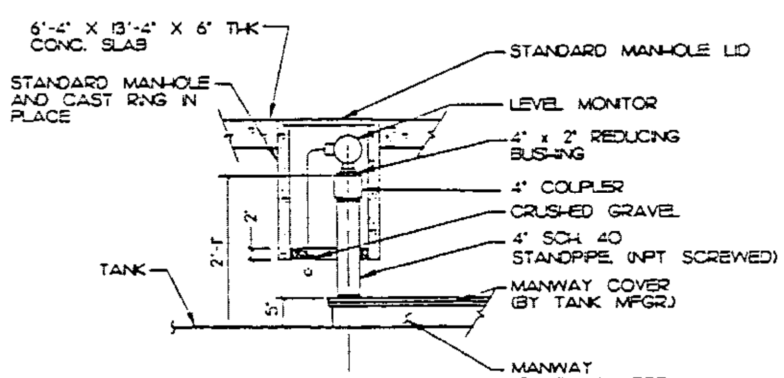
ELEVATION
N.T.S.



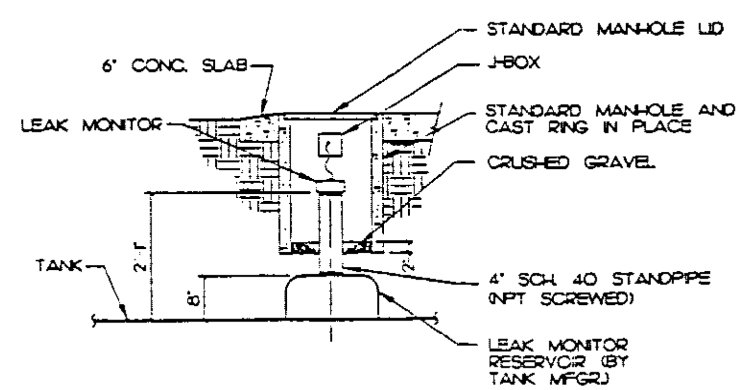
DETAIL 1
N.T.S.



END VIEW
N.T.S.



LEVEL MONITOR HANDHOLE
DETAIL 2
N.T.S.



LEAK MONITOR HANDHOLE
DETAIL 3
N.T.S.

SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176	PROJECT NO. 020237	APPROVALS	DATE
SCALE: 1" = 1" IN 1/10"	DESIGN PHASE / DATE APPROVED	CONST. T. HARRIS/RWA	9/7/90
SCALE: 1" = 1" IN 1/16"	TITLE I	P.M.	9/7/90
QUALITY LEVEL B	TITLE II 7/23/90 CLAPP	DES MGR S.A. SPALDING	9/7/90
	APPROVED FOR CONSTRUCTION 9/7/90	DESIGN L. CLAPP	9/7/90
		CHECKED T. HARPER	9/7/90
		DRAWN C.A. BEHM	6/90
		SUBCONTRACT NO. 192650	
		ISSUED FOR CONSTRUCTION T. HARPER	9/7/90

EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

CFA STRUCT. 743

CFA WASTE OIL TANK REPLACEMENT

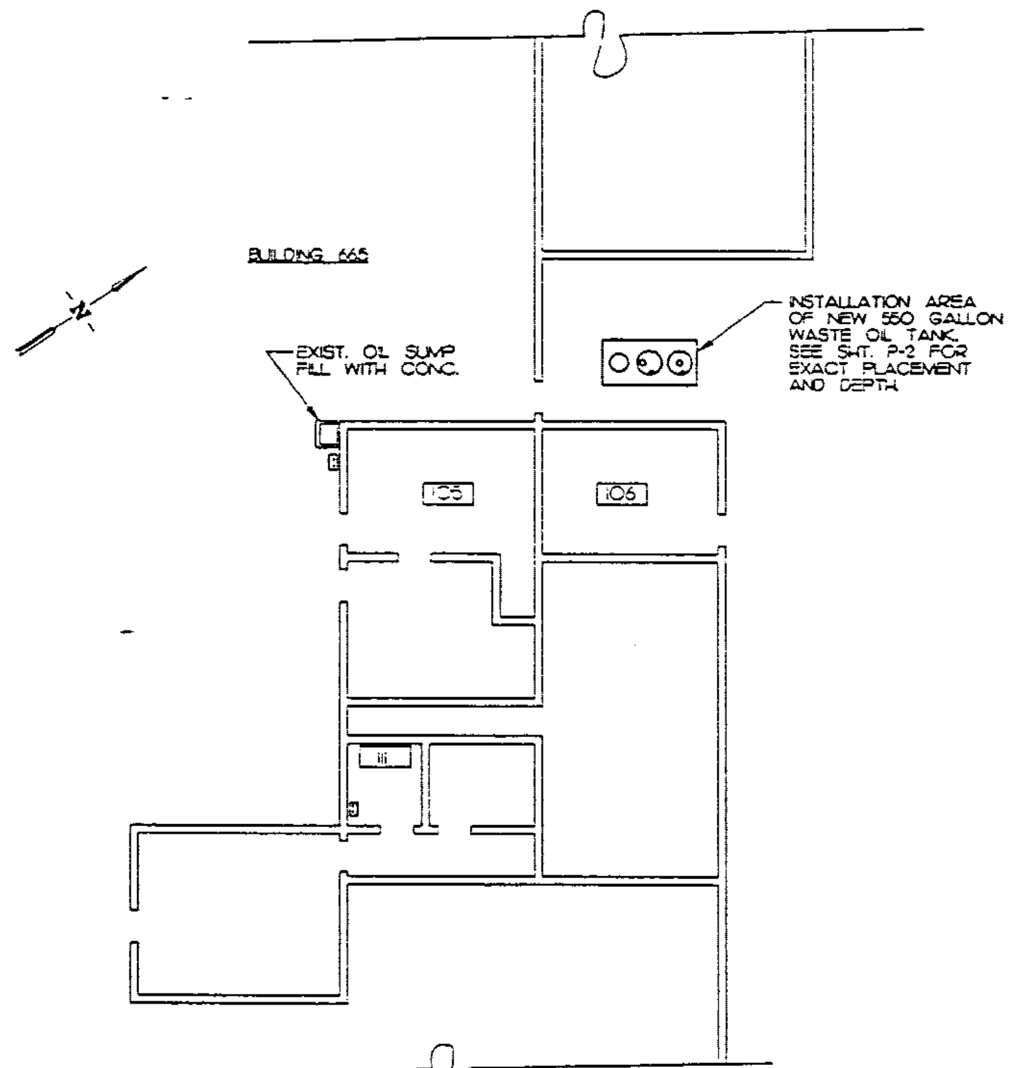
BLDG. 664 PLAN, TANK ELEVATIONS, DETAILS

SIZE D | 188 0743 53 220 | DRAWING NO. 174177 | REV 2 | A/E SHT. NO. C-1 | SCALE NONE

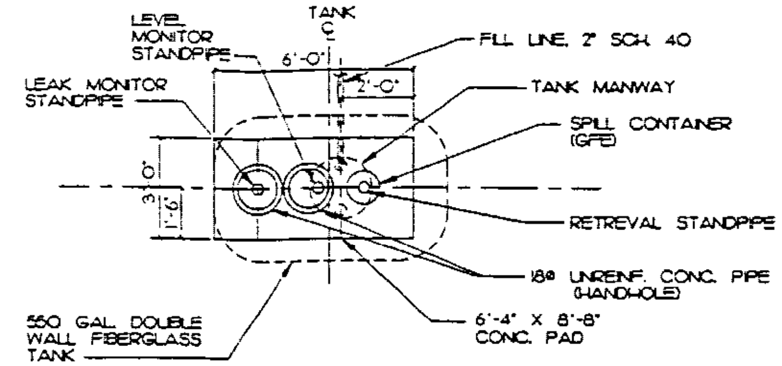
142627

$ THINK VALUE ENGINEERING $

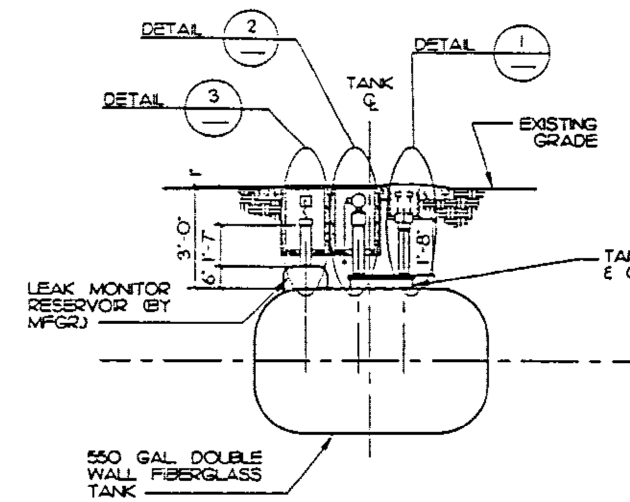
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	GENERAL		T.H.
2	AS-BUILT	MQ 4-17-92	RMH ARR



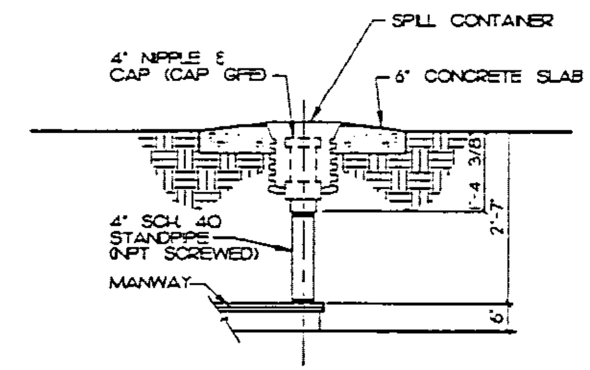
PLAN
N.T.S.



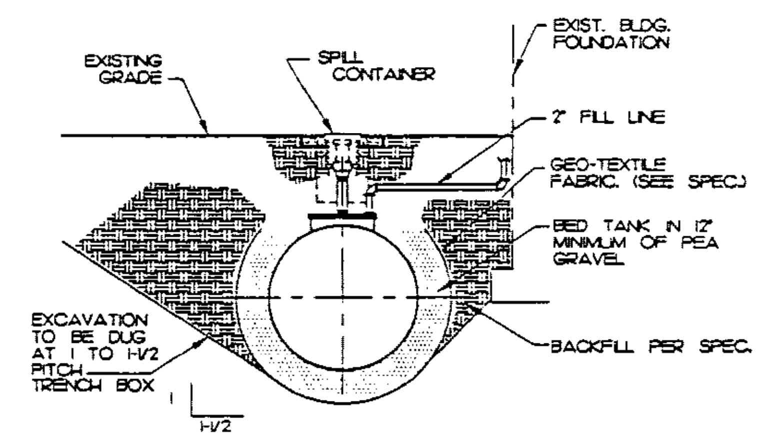
PLAN VIEW
N.T.S.



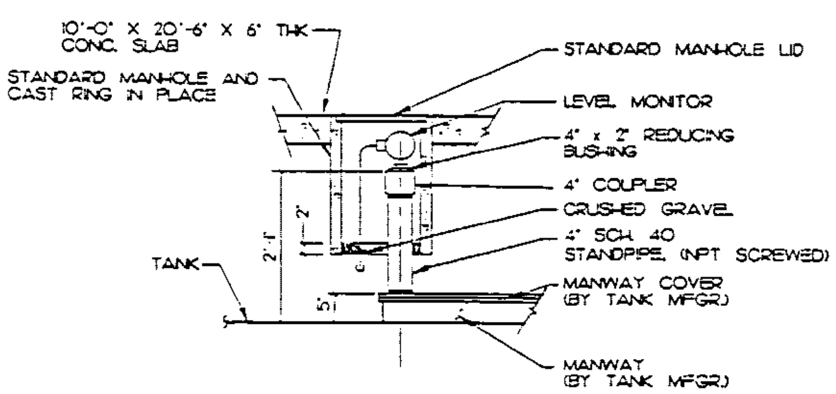
ELEVATION
N.T.S.



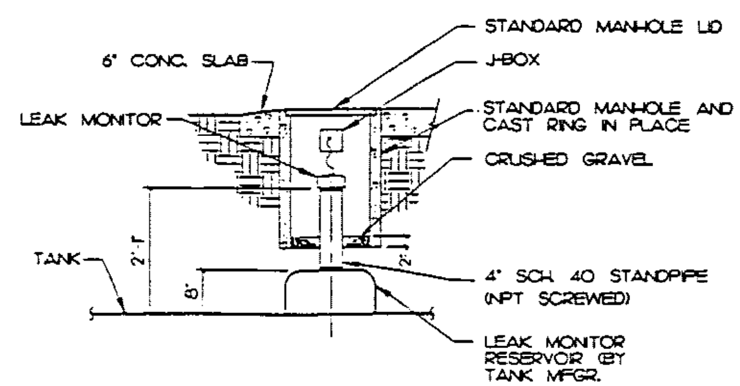
DETAIL 1
N.T.S.



END VIEW
N.T.S.



LEVEL MONITOR HANDHOLE DETAIL 2
N.T.S.



LEAK MONITOR HANDHOLE DETAIL 3
N.T.S.

SAFETY PAYS

FOR DRAWING INDEX SEE DRAWING NO. 174176
PROJECT NO. 020237
SCALE: 1" = 1" IN 1/10"
SCALE: 1" = 1" IN 1/16"
QUALITY LEVEL 5

DESIGN PHASE	DATE APPROVED
TITLE I	
TITLE II	7/23/90 C. APP
APPROVED FOR CONSTRUCTION	9/7/90 LEG

APPROVALS	DATE
CONST. THARPS/RWN	9/7/90
P.M. DAHUNTEY BY LS ELSON	9/7/90
DES MGR S.A.SPALDING	9/7/90
DESIGN L. CLAPP	9/7/90
CHECKED T.HARPER	9/7/90
DRAWN C.A. BEHM	7/90
SUBCONTRACT NO. 192650	
ISSUED FOR CONSTRUCTION TERRELL HARPER	9/7/90

EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

CFA STRUCT. 744

CFA WASTE OIL TANK REPLACEMENT

BLDG. 665 PLAN, TANK ELEVATIONS, DETAILS

SIZE D | 188 0744 153 220 | DRAWING NO. 174178 | REV 2 | A/E SHT. NO. C-2

SCALE NONE

$ THINK VALUE ENGINEERING $

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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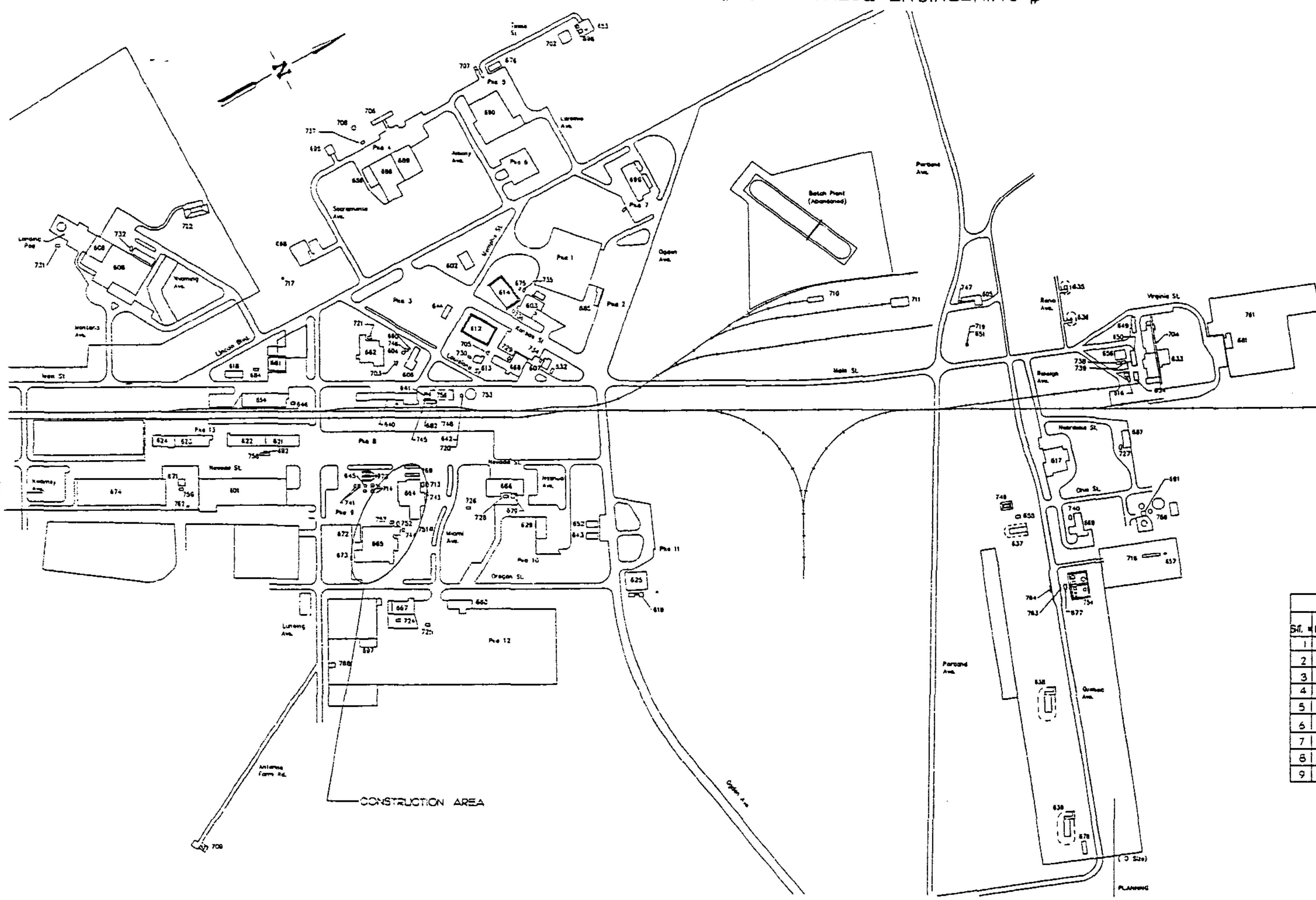
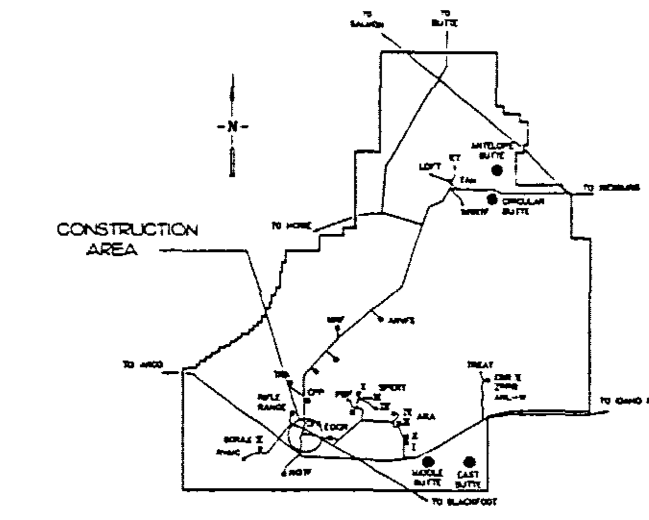
2	AS-BUILT	4-17-92	RMH ARZ



CFA AREA MAP

SCALE: 1"=250.0'



SITE MAP

SCALE: NONE

DRAWING INDEX				
SH. #	DWG. #	A/E SH.#	REV.	DRAWING TITLE
1	174176	T-1	2	SITE MAP, AREA MAP, DRAWING INDEX
2	174177	C-1	2	BLDG. 664 PLAN, TANK ELEVATIONS & DETAILS
3	174178	C-2	2	BLDG. 665 PLAN, TANK ELEVATIONS & DETAILS
4	174179	S-1	2	FILTER DRIP RACK
5	174180	P-1	2	BLDG. 664 SECTION, VIEW, DETAILS, AND ELEVATION
6	174181	P-2	1	BLDG. 665 ELEVATIONS AND DETAILS
7	174182	E-1	2	BLDG.664 PLAN AND VIEWS
8	174183	E-2	2	BLDG.665 PLAN AND VIEWS
9	174184	E-3	2	WIRING AND LOGIC DIAGRAMS

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Tank # CFA-[illegible]

FOR DRAWING INDEX SEE DRAWING NO.	174176
PROJECT NO.	020237
SCALE: 1"= 1" IN 1/10"	
SCALE: 1"= 1" IN 1/16"	
DESIGN PHASE	DATE APPROVED
TITLE I	
TITLE II	7/25/90
APPROVED FOR CONSTRUCTION	9/7/90
QUALITY LEVEL	B

APPROVALS	DATE
CONST. T HARPER/GWN	9/7/90
P.M. BM HACKETT BY US TECH	9/7/90
DES MGR S.A. SPALDING	9/7/90
DESIGN L. CLAPP	9/7/90
CHECKED T. HARPER	9/7/90
DRAWN C.A. BEHM	6/90
SUBCONTRACT NO. 92650	
ISSUED FOR CONSTRUCTION T. HARPER	9/7/90

EG&G Idaho, Inc. A/E CONTRACT NO. 1570 FOR U.S. DEPARTMENT OF ENERGY IDAHO OPERATIONS OFFICE IDAHO FALLS, IDAHO

CFA

CFA WASTE OIL TANK REPLACEMENT

SITE MAP, AREA MAP, DRAWING INDEX

SIZE D | 188101001011220 | DRAWING NO. 174176 | REV 2 | A/E DWG. NO. T-1

SCALE AS SHOWN

SAFETY PAYS

142626

COMPLIANCE SECTION CHECKLIST [1]

TANK NUMBER CFA744

Doc. #		Received
1)	State Registration/Notification Form	X
2)	Tank Closure Notice	X
3)	Final Closure Summary	X
4)	Tank Tightness Test Results (if applicable)	X
5)	Release Report Required: YES _____ NO _____ Documentation	
6)	Photographs (if applicable)	

[1] Revised 2/1/91